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 <211> 733
 <212> DNA
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 aattcgaggg tgcaccgtca gcttcctct tcccccaaa acccaaggac accctcatga 120
 tctcccgga tctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg cacaggact 300
 ggctgaatgg caaggagtac aagtgaagg tctccaaca agccctcca acccccatcg 360

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agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgccc 420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacggct ctttcttct ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cagcagaag agcctctccc tgtctccggg taaatggtg cgacggccgc 720
gactctagag gat 733

```

```

<210> 2
<211> 5
<212> PRT
<213> Homo sapiens

```

```

<220>
<221> Site
<222> (3)
<223> Xaa equals any of the twenty naturally occurring amino acids

```

```

<400> 2
Trp Ser Xaa Trp Ser
1 5

```

```

<210> 3
<211> 86
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence with 4 tandem copies of the GAS binding site
found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
(1994)), 18 nucleotides complementary to the SV40 early promoter,
and a Xho I restriction site.

```

```

<400> 3
gcgccctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgccatctc aattag 86

```

```

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

```

```

<220>
<221> Primer_Bind
<223> Synthetic sequence complementary to the SV40 promoter; includes a
Hind III restriction site.

```

```

<400> 4
gcggcaagct ttttgcaaag cctaggc 27

```

```

<210> 5
<211> 271
<212> DNA
<213> Artificial Sequence
<220>

```

<221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
 ctcgagattt ccccgaaatc tagattttccc cgaaatgatt tccccgaaat gattttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120
 gcccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggcctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NFkB binding site (GGGGACTTCC), 18 nucleotides complementary to the 5' end of the

SV40 early promoter sequence, and a XhoI restriction site.

```

<400> 9
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg    60
ccatctcaat tag                                                         73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NEKB
        binding sites.

<400> 10
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct    60
caattagtca gcaaccatag tcccggccct aactccgccc atcccgccc taactccgcc    120
cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga    180
ggcgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg    240
cttttgcaaa aagctt                                                    256

<210> 11
<211> 459
<212> DNA
<213> Homo sapiens

<400> 11
ggcacgagga agcgtgaacc ccagggaaca gcgggtccct tccctcctca gacacaagcc    60
acctcagctt gtggctcttg gccccagcc ccaccaaccc acctgttcat ttattcaaca    120
gacaatgaca gctgatatTT attggacatt tgcacatgca caagcattg gcttggatta    180
tcccatttgt ttctcacagc cgggtatttat tgtctgctcc tctgtgccag gtgctgtgct    240
ctgggcaggg gcactgcatg ggctgcctgc cctggtggag cttgtggtct gatgggtgag    300
gctgacccaa gcccaaccca ttgccaacag ggccagggca agagtacaca caggggcctc    360
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atgttctatt ctccctacttt gaaaaaaaaa aaaaaaaaaa                    459

<210> 12
<211> 540
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (341)..(341)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (378)..(378)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (425)..(425)
<223> n equals a,t,g, or c

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<220>
 <221> misc_feature
 <222> (450)..(450)
 <223> n equals a,t,g, or c

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 ttaggagagg gggcaggggg gcagcagtag aaatgtggcg gggccgact tgggtgtttcc 120
 ggccgtcttt gtgtctrtgt tgtgtatgtg gagtgtcatt cggctctttat gtccctcacg 180
 gcttcagtct ctccatgtgt gtttctgccc caggtctctgc ctggctgtcc cttgtgtatt 240
 ccatctgtct agcccgtggt tccatgtcag amcggstttc ttctcgggam agcctgggtg 300
 catctggggc atctgttttg ttggtttgct tctgggtgca ngcagacca ggagtgggtg 360
 tctctgttcc ccgagcanct gtctctgtgc tctgggtggtg tgtgagtcca tctgcctgcc 420
 tcganttggc cccaaccaag cccccccan cctctctctt ctctctctca atcttccctt 480
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<210> 13
 <211> 888
 <212> DNA
 <213> Homo sapiens

<400> 13
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 tagtttcggg agccactggg gccaaagtga gagtccagcg gtcttccagc gcttggggcca 180
 cggcggcggc cctgggagca gaggtggagc gacccatta cgctaaagat gaaaggctgg 240
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 gatctccact gtggagcatg cagggtctct gtggatgaac tagaatggga aattgcccag 360
 gtggaccca agaagacat tcagatggga tctttccgga tcaatccaga tggcagccag 420
 tcagtgggtg aggtgcctta tgcccgtca gaggcccacc tcacagagct gctggaggag 480
 atatgtgacc ggatgaagga gtatggggaa cagattgatc ctccaccca tcgcaagaac 540
 tacgtacgtg tagtgggccc gaatggagaa tccagtgaac tggacctaca aggcattcca 600
 atcgactcag atattagcgg caccctcaag tttgcgtgtg agagcattgt ggaggaatac 660
 gaggatgaac tcattgaatt cttttcccga gaggctgaca atgttaaaga caaactttgc 720
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<210> 14
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (613)..(613)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (623)..(623)
 <223> n equals a,t,g, or c

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 tgctgcaggg cctgcgtgas yttttaccac tgggcgatgg tggctgtgac gggcggcgtg 120

ggcgtggccg	ctgccctgtg	tctctgtagc	ctcctgctgt	ggccgacccg	cctgcgacgc	180
tcccagaggc	gagaacaccg	acacccag	gaaggtgagg	ggatcagcac	ggcgccgcca	240
ccgtgctgga	acgagactca	gccacaagga	ggtgcgaagc	tctgacccag	gccacagtgc	300
ggatgcacct	tgaggatgtc	acgctcagtg	agagacacca	gacacagaag	ggtacgctgt	360
gatcccactt	ctatgaaatg	tccaggacag	accaatccac	agaatcaggg	agggattcg	420
tgggtgcccg	gactggggag	ggggacctgg	gggtgactag	gtgacataat	ggggacaggg	480
ctgccttctg	ggtgatgaga	atgttctgga	atcagatggg	atggctgcac	ggcgtgggtga	540
aggtactgaa	cgccacctca	ctgtaagacg	gtagattttg	tattttacca	caataaacia	600
aacaaaacia	aanmaaaaa	aanaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa	654

<210> 15
 <211> 1445
 <212> DNA
 <213> Homo sapiens

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tctataactt	tttgttttca	ttatattttag	gaaaatcctg	ccttgcttcg	ttgggcctat	240
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aaaaa						1445

<210> 16
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 <212> DNA
 <213> Homo sapiens

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<210> 17

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (787)..(787)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (880)..(880)

<223> n equals a,t,g, or c

<400> 17

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agtgtgatac	attctctaaa	gcaacatgtt	gtaaaatttt	actgctttct	tgttgtgttt	120
tatatcttgt	tttctccagg	cttcgtggac	tcgaccagag	aagcaagg	tatagcttac	180
ctgaccacta	gccagtcctt	agttttgaaa	gcattacagt	ttaactcacc	attgcagttt	240
aataaccaga	catgctaaac	taattagtaa	tttagctaaa	gaataggctg	atagtggtag	300
acattactta	gcaatagtat	catttaggat	gagcaagcaa	gctgtgttgg	gagtggatga	360
acaaatccat	attatttctt	aaaactggat	cttattctct	tgctgggtgct	ggtaaaatca	420
catccaggta	attacaccaa	tagaaataaa	ttgcccccaa	ttcccaggcc	aggcattttg	480
aaatggtgaa	agttttttga	ctcacatggt	tgatgtggct	ctggaccata	aagtcacaga	540
gttagtgatc	taaaaaccca	ctcctccctt	tcctttccag	ctaactcat	cttgttgctc	600
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tgcaaatgac	atctctcgtt	ggttttccca	aattgctaaa	cgtatctctg	ttacttttat	720
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amcctactta	tgatcatgam	tataattttt	taccgcgattt	atatgaagta	acatatagtg	960
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aggctggtct	gtggacatca	ttaaacagga	gaaatttcca	catggagaaa	tttctgaaa	2280	
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<400> 18						
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 <212> DNA
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<210> 26
 <211> 1404
 <212> DNA
 <213> Homo sapiens

<400> 26						
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<210> 27
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 27						
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<210> 28
 <211> 2008
 <212> DNA
 <213> Homo sapiens

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<210> 29
 <211> 1160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (325)..(325)
 <223> n equals a,t,g, or c

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<210> 30
 <211> 1853
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1840)..(1840)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1851)..(1851)
 <223> n equals a,t,g, or c

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<210> 31
 <211> 2229
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2227)..(2227)
 <223> n equals a,t,g, or c

<400> 31						
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<210> 32
<211> 1554
<212> DNA
<213> Homo sapiens

<220>
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<222> (695)..(695)
<223> n equals a,t,g, or c

<220>
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<220>
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<223> n equals a,t,g, or c

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<210> 33
<211> 730
<212> DNA
<213> Homo sapiens

<400> 33

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aaatggttac	cttaaagttc	tdtcgggtca	ggccttcttc	agtttttagca	tctctaataca	420
ttgcagcaac	gtatcgcttc	accaggttcc	tcataacttc	ctgaggcatt	ttagaacaag	480
agtattgata	ctcaatgagt	aaataaattt	cctcctgagt	cagttctgaa	ggggggactg	540
cattttatatt	tagtgaaaaa	ttcaagacat	agtacaagga	caacttactt	ggatttgggtg	600
atgtcttctc	aagttatcag	cagctcgctc	ctgaaaagga	aaaggacatt	cctttctggt	660
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aaaaactcga						730

<210> 34
 <211> 2084
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2075)..(2075)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2083)..(2083)
 <223> n equals a,t,g, or c

<400> 34						
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gctgtgctgt	gttggtctgt	ttgggacact	atgttccagg	gattatgatt	tcctacattg	180
tcttggttag	tatcctgctg	tggccccctg	tggtttatca	tgagctgata	cagaggatgt	240
acactcgctc	ggagccccct	ctcatgcagc	tggactacag	catgaaggca	gaagccaatg	300
ccctgcatac	caaacacgac	aagaggaagc	gtcaggggaa	gaatgcaccc	ccaggagggtg	360
atgagccact	ggcagagaca	gagagtgaag	gcgaggcaga	gctggctggc	ttctccccag	420
tgggtggatgt	gaagaaaaaca	gcattggcct	tggccattac	agactcagag	ctgtcagatg	480
aggaggcttc	tatcttggag	agtgggtggc	tctccgtatc	ccgggccaca	actccgcagc	540
tgactgatgt	ctccgaggat	ttggaccagc	agagcctgcc	aagtgaacca	gaggagaccc	600
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tttgccctgt	tggaaagtga	ccagccccct	ccccttccat	tctcccacct	gttccccagg	960
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ttcactgcat	ccttgcccca	ttcagcccgg	cctttcatga	tgcaggagag	cagggatccc	1860
gcagtacatg	gcgccagcac	tggagttagt	gagcatgtgc	tctctcttga	gataggagc	1920
ttccttactg	ctcctctggg	tgatccaagt	gtagtgggac	cccctactag	ggttaggaag	1980
tggacactaa	catctgtgca	ggtgttgact	tgaaaaataa	agtgttgatt	ggctagaaaa	2040
aaaaaaaaaa	aaaaaaaaaa	actcgagggg	gggcnccggt	acnc		2084

<210> 35
 <211> 1016
 <212> DNA
 <213> Homo sapiens

<400> 35						
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cgagaatgga	tcaatggtgt	cacggagcac	atcgctgacg	ctgattgtgt	tcctttcca	180
cagattgtct	aaagccccag	gaaaaatggt	ggaaaattca	ccgtcgccat	tgccagaaag	240
agcgatttat	ggctttgttc	ttttcttaag	ctcccaattt	ggcttcaaaa	atctgaaggg	300
atctcgtgtt	tgctgagtgt	tccgtgtgcc	agcactagcc	taggaggttt	tagtctctac	360
aaatatttat	acagcaccag	acgcgatggc	aaagtggata	aagcctggtc	cctgccctta	420
aggaggtcgt	ggtcttgttg	aggagacaga	tggtacttta	cctcgtgtgg	gcctttattc	480
ctgaatcttg	gctaaactct	ttagggtttaa	cctattggcc	tcaaaaaatat	tgggcagttg	540
cattacctgt	ctacctcctt	attgctatag	taattggcta	cgtgctcttgt	ttgggatta	600
acatgatgag	tacctctcca	ctcgactcca	tccatacaat	cacagataac	tatgcaaaaa	660
atcaacagca	gaagaaat	caagaggagg	ccattccagc	cttaagagat	atttctatta	720
gtgaagtaaa	ccaaatgttc	tttcttgcag	ccaaagaact	ttacaccaaa	aactgaactg	780
tgtgtaacca	tagtaacacc	aagcacgtat	ttattttataa	gtttttgcca	ttataatttt	840
gaccataaat	taatttgacc	atctctctta	ttaatagaga	agtaaaaaat	gtaagttgac	900
cttctcttag	attatgttca	atgaatattg	taaatgttca	agtattgtta	atgaatagaa	960
taaatacaat	attgcattcc	cataaaaaaa	aaaaaaaaaa	aaaaaaaaac	tcgtag	1016

<210> 36
 <211> 1430
 <212> DNA
 <213> Homo sapiens

<400> 36						
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acttcttcga	ttgaaccctg	cttcctcgac	ccccctggga	ggccgccttc	ttcaggcgcc	120
tcccttctct	ccaagagctc	gctctgacag	ctgaggaaact	ggcaagatcc	tgctaccag	180
aggggtgaatg	ggtatctttc	ccggaataat	cctaattttt	ctaagggtga	agtttgcaac	240
ggcggccgtg	attgtaagcg	gacaccagaa	aagtaccact	gtaagtcatg	agatgtctgg	300
tctgaattgg	aaaccctttg	tatatggcgg	ccttgcctct	atcgttgctg	agtttgggac	360
tttccctgtg	gaccttacca	aaacacgact	tcaggttcaa	ggccaaagca	ttgatgcccg	420
tttcaaagag	ataaaatata	gagggatgtt	ccatgcgctg	tttcgcatct	gtaaagagga	480
aggtgtattg	gctctctatt	caggaattgc	tcctgcgttg	ctaagacaag	catcatatgg	540
caccattaaa	attgggattt	accaaagctt	gaagcgctta	ttcgtagaac	gtttagaaga	600
tgaactctt	ttaattaata	tgatctgtgg	ggtagtgtca	ggagtgatat	cttcactat	660
agccaatccc	accgatgttc	taaagattcg	aatgcaggct	caagggaagct	tgttccaagg	720
gagcatgatt	ggaagcttta	tcgatataata	ccaacaagaa	ggcaccaggg	gtctgtggag	780
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ttttttttat	ataaaagacat	aaaatcgtga	attataatcc	aaaaactaag	gtaagaaact	900
cctcatctcc	cttgaaaggc	ccaaaactta	tcattggcct	tttatttctg	cataatgttt	960
ggggattata	taggtgggga	aagttattac	attatttgag	atggctgttt	cgatcatatt	1020
cacagtgaat	gtagtgttcc	agtgtatttt	tttgcaagtt	ctgtactaac	acgatgatgt	1080

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ccagcctggc	caacctgggtg	aaaccccatc	tcaactagaa	atacaaaaat	tagccaggca	1260
tggtgggtgca	tggtgtgtgt	cacagctact	caggaggctg	aggcgggaga	attgtttgag	1320
ccctggaggt	ggaggttgca	gtgagccaag	atcatgccac	tgcactccag	cctgggtgac	1380
ggggcgagac	tctgtctcaa	aaaaaaaaaa	aaaaaaaaaa	aaaactcgag		1430

<210> 37
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 37	
tcgacccacg	cgctccgccct
caactaataa	acctcctcca
accatagccc	tcaggcagaa
acacctcctc	caggaagtct
ctgccctcat	attcgctaac
gccactaagg	gccaacatgg
ttccaaatgc	ttaaaaaaaa
	aaaaaaaaaa
	aaggcgggcc
	60
	120
	180
	240
	300
	360
	400

<210> 38
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1017)..(1017)
 <223> n equals a,t,g, or c

<400> 38	
gagcaagctc	atTTTTTTTT
aacttcttag	cttgggttca
ttggcacagg	cttggagtat
ttatggtcct	ggacagaagg
ttcttgtccc	ctttccagat
gaccaaaggc	caagtctctgt
tccagtcccc	actgatttct
ctcttcccaa	gttttaaaaa
gggagagggg	accctttctg
ctgtgtatag	cagatatcac
gtcatgaaca	ctatctcatg
ccgacttgaa	actcacagtc
ttgtcagaag	ctcagaaaagc
gaccggagcc	ccagatgcgc
tgcaaggagc	tccagtgtct
cacaataagg	cagattttca
aaagggcttt	aatcaacaga
tgtaagccag	aaaatgacat
ttaaaaaaaa	aaaaaaaaaa
	ctcgag
	60
	120
	180
	240
	300
	360
	420
	480
	540
	600
	660
	720
	780
	840
	900
	960
	1020
	1080
	1106

<210> 39
 <211> 875
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (872)..(872)
 <223> n equals a,t,g, or c

<400> 39
 ggcacagcgc gaggctgggt cccggcccag gagaaggaag tcgctgaagg cagtggccat 60
 gctggnctg gaaatgggag gcggttgag rgggtctatg gggcccggtcctggatactc 120
 ggcaggaagc cgtgtctgca gaggtcctc cctgcctcag gtggccccgt tcaacccag 180
 ccgtgcccat ctctgtccac cgcctgtcgg tgggggttta aattcgggtgt ggctttcttg 240
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 acgaggaccc tggatgggt ctagttcact tgggaccgtg gggcctggct gcgtactgag 360
 tgggtgcccc acagtcaagg ccaacggggg ctccccctgc tctgagatgt tgggagaaag 420
 gcggcttctg gaaccttccg tgggaccctg aagtggctgt ccagaaaggc gggagggtag 480
 gcacggggca cggggggcag ctggggctgt cgttaagggt cacgctccg tacagttgaa 540
 tttcctttct cttatcatgt tttaccacac ttgtcccttt tttccccaat tgtgcttttg 600
 catttttttc cttggcaaat gtaaaactcag cctttcattc atgacgtgtg aaatttcagt 660
 ttctctggag tttgtcagac ggcgtgggaa ccacgcctga aactcaggta ataggaggaa 720
 aaaaaaaaaa cttaaaaaaaaa tttttaaaaa acataaaaact actctctacc tctgctggsc 780
 cagcctgtct cgccctggcc ggcgcagggt ggccctgtaac aatttcagtt ttcgcagaac 840
 attcaggtat taaaaggaaa aaaaaaaaaa anggg 875

<210> 40
 <211> 710
 <212> DNA
 <213> Homo sapiens

<400> 40
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 agccaggctg agaaaacagt tactcacatt gagcagttag tgaccactag gtgggcattt 180
 gttcatagct gcatggagaa caagtgccca tatacatctt tctgctgatg cagcctctaa 240
 attttgaatg catcagtttt ttaaactgca ttgagcaata ttccgtgggt gtgatccata 300
 atagcgtaac tatttacgcc tgtgacagag aggaaaactg tatggatatc agatatcttt 360
 aagagctttt taatctttaa tcaagttagt acttcttaag gtgattaag gccaggcagt 420
 ggctcacacc tgtaatccca gcattttggg aggccaagat ggggtggatcc cttaagggtca 480
 agagttcaag gccatcctgg ccaacatggt gaaaccccat ctctactaaa aatacaaaaa 540
 ttagctgggg tgtggtggca ggcgcctgta accccagcta ctcaagaggc tgagacaaga 600
 gaatcgcttg aagccaggag ttggagattg cagttagcca agatcatgcc acttcactcc 660
 agcctggaca gcagagtggg acttcttctt aaaaaaaaaa aaaaaaaaaa 710

<210> 41
 <211> 1540
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (651)..(651)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1124)..(1124)
 <223> n equals a,t,g, or c

<400> 41
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 agcggcttaa aacaacaaga gcttattcct cacagttctg gaggccagaa gtccaaaacc 120
 aagggtgcag gaagggtcatg ctctctccaa agtctccaag gatgctcctt ccttgccctc 180
 tccagcctct ggtcgtggcc aacatcccga gggttccttg gcttgcatat gaatcactta 240
 atcccacccc catcatcaca tggcagtccc cctgtgtagc tcagctctgt ccaaatttcc 300
 cctttcctac aaggacatta gtcactggat tatgacacag ctcatcttaa ctggattata 360
 tctgcaaaga ccctgttata tctgcaaaga cgagttaaca ttcacatgtt ccaggggaga 420
 tatgaatttt aaggggacag tattggaccc agtataggag ggcaggcagc agcgagggag 480
 ccagggaggg ctggcctgac ttgagcctgt ttgaaaagca tcatcctcct accaagactg 540
 ggggctgctg gttctgacaa ggtttgcagg atcagctggg atgatgggtt scamccaytc 600
 cttcagayta cgttggaccc ctgggcccac ttacagcaag gagcttgccc ntycgtgtag 660
 ctctycgtca gtgtgggaaa atctgartga gccagagaag ggtgagattc cccctgcaga 720
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 gagtcacaag ggctgggcct agctgacccc caaggccctt acatgagtgg atagttgcat 900
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 aatatacccc ggctcagcct gccccatgct gagccccgcc tggggcagtg caggagacca 1320
 tgtgatggtg tagagcactc tgcaacaccc catattcatg tccccactcctagggccccg 1380
 ctcggtcccc aggaggccag agcggctcctg cctctgcct gagcatggct cagctccagc 1440
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 ggccagttgg ccaaactctc caagccagaa gccctcag 1540

<210> 42
 <211> 1421
 <212> DNA
 <213> Homo sapiens

<400> 42
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 gccctcagtt gctaagggct acccgagtgg gaagcggttc aagagatggg gtgaaggggtg 120
 gttcaccggg tcttcaagtc ctccagccttc tggcccgmgg aagttaagcaaccaagaggc 180
 gggcctaaga ccggaagcag gaaggagggc gcaggaagca gggcgccgca gcctgtcgtg 240
 cggtccttct gtgggtctgt cgggtgccag ggcaggatgg agaagctgcg gctcctgggc 300
 ctccgctacc aggagtacgt gactcgtcac ccggccgcca cggcccagct ggagacagca 360
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 cttcggaaaa agttgcctgt gtcgctgtcc cagcagaagc tgctgacatg gctgagcgtg 540
 ctggagtgcg tggaggtgtt catggagatg ggagctgcca aggtggggg tgaagtgggc 600
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 aggcacagcc ccggatgggt gaccacagcc ywggyaacca tgagcagtc tacgtgggga 780
 agcgggtcaa ccgggtgggt cgaaccctcc agaacacgcc gtccctgcac tccaggcact 840
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaagggcggc	c		1421

<210> 43
 <211> 2184
 <212> DNA
 <213> Homo sapiens

<400> 43						
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ccccagagaa	gaaatccaaa	cctcaccttc	tgttgctgct	tctctactat	cttatgggtg	120
cttgactggc	tctcccaagc	ctgctgtcct	gcagcctcac	tgcctgtgtc	cttttctcag	180
gcagtgtgct	ggcgttccat	gcgacgtggc	tgtgcagtgc	tgggagccct	ggggctgctg	240
gccggtgcag	gtggtggctc	atggctccta	gtgctgtatc	tgtgtcctgc	tgcctctcag	300
cccatttccg	ggaccttgca	ggatgaggag	ataaattga	gctgctcaga	ggccagcgct	360
gaggaagctc	tgtccctgc	acttcccaaa	acagtatctt	tcagaataaa	cagcgaagac	420
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tctcctagac	tgggaggctt	cctggaggag	gcgtggcagc	ccaggaacaa	ctgcacttct	660
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<213> Homo sapiens

<400> 53

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<210> 54

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 54

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<210> 55
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 55	
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<210> 56
 <211> 1999
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (532)..(532)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1490)..(1490)
 <223> n equals a,t,g, or c

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<210> 57
 <211> 1021
 <212> DNA
 <213> Homo sapiens

<400> 57						
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<210> 58
 <211> 1636
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (424)..(424)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (823)..(823)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (960)..(960)

<223> n equals a,t,g, or c

<400> 58

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<210> 59

<211> 1046

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (483)..(483)

<223> n equals a,t,g, or c

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<400> 59
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<210> 60
<211> 1000
<212> DNA
<213> Homo sapiens

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<400> 60
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<210> 61
<211> 1090
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (8)..(8)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (28)..(28)

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<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (43)..(43)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (54)..(54)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (95)..(95)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (545)..(545)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (863)..(863)

<223> n equals a,t,g, or c

<400> 61

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<210> 62

<211> 1381

<212> DNA

<213> Homo sapiens

<400> 62

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<210> 72
 <211> 796
 <212> DNA
 <213> Homo sapiens

<400> 72						
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gcgaatcact	ttagyccggg	gaggtcgagg	atgagttag	ctgagattgc	gccactgaac	720
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aaaaaaaaaa	ctcgtat					796

<210> 73
 <211> 1076
 <212> DNA
 <213> Homo sapiens

<400> 73						
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cagaagaatg	gcaaagataa	ttgtctcgtg	ttttaccctg	acccatttcc	tttaagaggg	420
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tctcctaaca	ccacctcggtg	agtgtttatg	tctattctaa	gtgaatttca	ctgtgtgaaa	780
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<210> 74
 <211> 762
 <212> DNA
 <213> Homo sapiens

<400> 74
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 tcttgggatg atgatgttca tctgggtcatc tgcccatcag tataagtgcc catgtttattc 240
 gcggcaatct caggaaaaat aaagcaggag tgggtcattca ctgtaaccac aggatcccat 300
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 tcttctttta tcaggccctg tctgcctttc tcagccacca attctacaaa agcaaatttg 480
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 aagtacagtt tcagcaaagc tgtttgaaac tctccattcc atttctatac cccacaagtt 660
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 aataaatact aatggcgagaa aaaaaaaaaa aaaaaaaaaa aa 762

<210> 75
 <211> 1918
 <212> DNA
 <213> Homo sapiens

<400> 75
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 tgttttcaca aagggtgtgag cgtggtgtcg gataaaggca ggactaatgc agtaacctag 240
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<210> 76
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (338)..(338)
 <223> n equals a,t,g, or c

<400> 76	
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<210> 77
 <211> 1816
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (504)..(504)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1405)..(1405)
 <223> n equals a,t,g, or c

<400> 77	
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gaacgatccc gttagaatca aggctgtgaa gctcaccagc tctcgaaccc agctacctta	180
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<210> 78
 <211> 865
 <212> DNA
 <213> Homo sapiens

<400> 78		
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tctatgctag	agcaaaaaatc aaatagcaaa ggacactagc cagaaaaatac agtgtgtgtg 360	
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<210> 79
 <211> 656
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (148)..(148)
 <223> n equals a,t,g, or c

<400> 79	
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<210> 80

<211> 1459

<212> DNA

<213> Homo sapiens

<400> 80

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<210> 81

<211> 532

<212> DNA

<213> Homo sapiens

<400> 81

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<210> 82
 <211> 661
 <212> DNA
 <213> Homo sapiens

<400> 82
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 cgtgtttcac atatagtaaa gctcaccaaa aagtaaaaaa aaaaaaaaaa aaaaaactcg 660
 a 661

<210> 83
 <211> 1050
 <212> DNA
 <213> Homo sapiens

<400> 83
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 <211> 488
 <212> DNA
 <213> Homo sapiens

<400> 84
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gatgtggagg gagaacagct caagaccacg gaacagcctg ctctcccgt tcttggttc	360
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<210> 85
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (3)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

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<210> 86
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (138)..(138)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (473)..(473)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1048)..(1048)
 <223> n equals a,t,g, or c

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ttcaccaaga aaaaaaaaaa aaaaaaanac tcgcggcacg a 1061
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<210> 87
 <211> 1192
 <212> DNA
 <213> Homo sapiens

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<210> 88
 <211> 1064
 <212> DNA
 <213> Homo sapiens

<400> 88

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tttttcccca	atggcagctt	ttctcccgtt	gttttacctt	cctattttccc	aaacagttcc	360
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cttttcttac	tctggcaaac	ctgtgagtga	ttccacaaag	atacagtatt	acttagctaw	480
ctgaattatg	atagaaaagg	tcctagttag	gttcctatat	aaagcatttg	gaagatgacc	540
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<210> 91
 <211> 496
 <212> DNA
 <213> Homo sapiens

<400> 91						
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<210> 92
 <211> 2352
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1),
 <223> n equals a,t,g, or c

<400> 92						
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<210> 93
 <211> 1523
 <212> DNA
 <213> Homo sapiens

<400> 93						
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<210> 94
 <211> 1297
 <212> DNA
 <213> Homo sapiens

<400> 94						
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<210> 95
 <211> 1432
 <212> DNA
 <213> Homo sapiens

<400> 95						
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<213> Homo sapiens

<400> 101

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<211> 913

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<400> 103

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 <211> 1892
 <212> DNA
 <213> Homo sapiens

<400> 105						
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<210> 106
 <211> 646
 <212> DNA
 <213> Homo sapiens

<400> 106						
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ttccatttgg	gggccccatg	ggaaagagct	tctgaactct	ttcctttatg	aactccact	300
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<210> 107
 <211> 826
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (726)..(726)
 <223> n equals a,t,g, or c

<400> 107						
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ggtgcctcta	gtcaatcatc	ttgaagcccc	ctgttatgtt	aaagtcttta	atggaaaaag	720
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaag	gcggcc		826

<210> 108
 <211> 1237
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (942)..(942)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (949)..(1184)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1194)..(1194)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1196)..(1196)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1218)..(1218)
 <223> n equals a,t,g, or c

<400> 108						
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<210> 109
 <211> 1267
 <212> DNA
 <213> Homo sapiens

<400> 109						
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<210> 110
 <211> 3194
 <212> DNA
 <213> Homo sapiens

<400> 110						
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<210> 111
 <211> 1420
 <212> DNA
 <213> Homo sapiens

<400> 111						
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cacactattc	ctttcctctg	gcccagtgaa	tttggctctc	cccagctctg	ggggactcct	1260
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tctgtcttaa	ttgtcgccag	gattgtcact	ccaaacctta	ctctgagctc	attaataaaa	1380
taaacagatt	tattttccag	cttaaaaaaa	aaaaaaaaaa			1420

<210> 112
 <211> 921
 <212> DNA
 <213> Homo sapiens

<400> 112						
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acagtagaga	aggggggtgt	gtttaaaata	aacacagtgg	cttgagcagg	ggcagagggtt	180
gtgatgctat	ttctgttgac	tcctagcagc	catcaccagc	atgaatgtgt	tcgtagggcc	240
tttgagtgtg	gcgattgtca	tattctgttg	gataacaatg	tattgggtgt	cgattgtcat	300
ggggcagggg	agagggcagt	acacctggag	gaccattttg	tccacatcga	caccatcagt	360
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ggctgaccga	tttctccttg	tgttcagagt	ctgtttttgt	ctagcaccat	ttgaaatcgg	540
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gcctgtggtt	tcctggaaga	tggatgggca	gagaataggg	aaggaagatc	atgcttttcc	660
ctactaaactt	ctgtaactgc	atgtatgata	cattattgca	gaggtaagag	atagtttaat	720
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atgtagtgct	gttctaattt	ctgtaaaatg	attgctgttg	aattatcttt	ctgttgagaa	840
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aaaaaaaaaa	agggcggccg	c				921

<210> 113
 <211> 822
 <212> DNA
 <213> Homo sapiens

<400> 113						
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ggagatggag	gtgtgagcag	catggtctgt	tgtggttttt	tcttggttg	gagtagagtt	180
agatcataca	tgaagctctc	tgggcatagg	tggagtagca	gctgtccaca	ccattgctat	240
tcaaagtgtg	gtttgcacac	cagtaaatgga	aaatcatctg	tgacactgt	ttagtttaac	300
tgatactttt	tttttcatag	caagatttct	taatgaagga	agtaatgtat	tgattttacat	360
tctgactcat	tgtctttatc	ttgtctttga	tcagtttgta	gactggcact	ggtccacat	420
ttgaataaca	ctattcttca	ttctactttc	catgtacccg	gatgccaggc	aaacagggag	480
ttttacgctg	ggtggagaac	ggaacattct	gctgactcct	tgaaagggt	tatctcacca	540

ggcatggtag	ctcacgactg	taatcccagc	tctttgggag	gctgaggtgg	gaggattgct	600
tgagctcagg	agtttgagac	cagcctgggt	aacatagggg	taccttgtcc	ctacttaaaa	660
aaaaaaaaaa	aaaaattagc	tgggtgtggt	tgtgcacacc	tgtagttcca	gctattccar	720
aggctgaggg	aggaggatag	gttgagcatg	ggargttgag	gctgcartgt	gccttgatgg	780
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<210> 114
 <211> 1871
 <212> DNA
 <213> Homo sapiens

<400> 114						
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cgtcggctcc	cggagcccag	ccctttccta	acccaaccca	acctagccca	gtcccagccg	120
ccagcgccctg	tcctgtcac	ggaccccagc	gttaccatgc	atcctgccgt	cttcctatcc	180
ttacccgacc	tcagatgctc	ccttctgctc	ctggtaactt	gggtttttac	tcctgtaaca	240
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gctttagtaa	atttttatgc	tgactgggtg	cgtttcagtc	agatgttgca	tcaattttt	360
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agagttgatt	gtgatcagca	ctctgacata	gccagagat	acaggataag	caaataccca	480
accctcaa	tgtttcgtaa	tgggatgatg	atgaagagag	aatacagggg	tcagcgatca	540
gtgaaagcat	tggcagatta	catcaggcaa	caaaaaagt	acccattca	agaaattcgg	600
gacttagcag	aaatcaccac	tcttgatcgc	agcaaaagaa	atatcattgg	atattttgag	660
caaaaggact	cggacaacta	tagagttttt	gaacgagtag	cgaatatatt	gcatgatgac	720
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aattttgatg	tgacttacaa	ttggattcaa	gataaatgtg	ttcctcttgt	ccgagaaata	900
acatttgaaa	atggagagga	attgacagaa	gaaggactgc	cttttctcat	actctttcac	960
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agtgaaaaag	gtacataaaa	ctttttacat	gccgattgtg	acaaatttag	acatcctctt	1080
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aacctatatt	ttcataattc	tatgtgtatt	tttattttga	ataaacagaa	agaaattttg	1500
ggttttta	ttttttctcc	ccgactcaaa	atgcattgtc	atttaata	gtagcctctt	1560
aaaaaaaaaa	aaaacctgct	aggattttaa	aataaamtc	agaggcctat	ctccacttta	1620
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ttaaacttgca	ctactagggg	agggaggact	tagggatggt	tcctgtgtcg	tatgtgcttt	1740
tctttctttc	atatgatcaa	ttctgttggg	attttcagta	tctcatttct	caaagctaaa	1800
gagatatata	ttctggatac	ttgggagggg	aataaattaa	agttttcaca	ctgaaaaaaa	1860
aaaaaaaaaa	a					1871

<210> 115
 <211> 1402
 <212> DNA
 <213> Homo sapiens

<400> 115						
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tgtgttatga	gaagtggccc	aacgaagcag	ctcatccaag	tgagattctg	aagttgggct	120
ggcgagtaca	cgaatggctt	tcttactaga	gagaagtggg	accctgctaa	tctgtagcat	180
gtggtggcat	catggttact	caaatatcac	tggaaacagaa	ggtgaaagaa	gaaatctgaa	240
gagaaataaa	acaaattttc	ggcggttcca	agatggccga	ataggaacag	ctccagctca	300
cagctcccag	tgtgagagat	gcagaagatg	ggtgatttct	gcatttccaa	ctgagcaaac	360

ggcacaccag	aagattatat	cccatgcctg	gctgggaggg	tcccatgccc	acggagcctc	420
gctcattgct	agcacagcag	tctgagatcc	atctgcaagg	tggcagtgag	gctgggggag	480
gggcacccac	cattgctgag	gcttgagtag	gtaaacgaag	cagccaggaa	gctcgaactg	540
ggtggagccc	accgcagctc	aaggaggcct	gcctacctct	gtagactcca	cctctcgggg	600
cagggcatag	ccaaacaaaa	ggcagcagaa	acctctgcag	acttaaagt	ccctgtctga	660
cagctttgaa	gtgagtagtg	gatctcccag	cacggagttt	gagatctgag	aacggacaga	720
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taccaggca	aacagggtct	gcagtggacc	tccagcaaac	tccaacagac	tggcagctaa	960
gggtcctgac	tgtagaaga	aaactaacia	acagaaagga	catccacacc	aaaaccccat	1020
ctgtaagtca	ccatcatcaa	agaccaaagg	tagataaaac	cacaaagatg	gggaaaaaac	1080
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aaggcttcag	aagatcaaac	ttctccaagc	taaaggagga	agttcgaacc	catcgcaaag	1260
aagctaaaaa	ccctgaaaac	agattagacg	aatggctaac	tagaataacc	aatatagaga	1320
agtccttaaa	tgacctgatg	gagctgaaaa	acatggcgcg	agaactacat	gacaaatgca	1380
caagcttatc	gataccgtcg	ac				1402

<210> 116
 <211> 1123
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (213)..(213)
 <223> n equals a,t,g, or c

<400> 116	
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ctgaaaattg	ccaagagaaa
accttgatcat	atgttctcat
taactcagac	aattttcttc
ttttggaac	ttcatgctgt
acctatttta	ttttgttgta
aggagactgg	aatcattccc
ctggcttctt	gagagcttgt
twgactarsg	accggtctwc
ctttgggagg	gacgcacatg
gatcagctga	atcaaccctg
cacatccagt	cctaccttct
gggctagaca	tgtattatag
tttcaactcat	ttatttcttg
atgccatgca	ttgtgctgag
aagtgtaaaag	tctgctggga
tgctttacta	gggaataaac
gttttacatg	gtaaatccat
acattttgtat	agcactgggt
tgtccagctt	ccagtcttgg
gatgtggaag	gatgaaatgg
ttccakgcct	tgngagcaag
ctctttgcag	aatggccctt
gatagaaagg	aggtaattgc
gtcacagcca	caaattctctg
agataaatca	gaaagtcaga
atcactttat	ggttatagtc
gcacagctag	tcatataccc
gagcttgag	ctcttctact
tagccagcca	gacacccgcc
agatcgccct	tggtgcagcc
agaaactgta	tgctggtct
gcactcatgt	ctttatatta
catctactat	cataattgag
gtcctgtaaa	acgggacatg
ttgaggcaag	tcaaaaagtgt
ccttcacgat	gagaacaaaag
aaaaa	ataagcaatt

<210> 117
 <211> 1417
 <212> DNA
 <213> Homo sapiens

<400> 117	
tttttttttg	attaaaaaaa
tttaaaaaat	tataaaatga
tgctctatat	gagtttaata

catgacgttg	gaggagcata	gagatagacc	tagactaggc	atgtgtatgt	gtgtgtgtgc	120
atgtgtgtat	gcatgcatgc	ttatgcatgt	gtgtgtgcat	gcatgcttgt	gtgtgtgtgt	180
gtgtgtgtgt	gtagagcctt	ggatcatccc	acagagcaaa	gacacaggag	ggtggcacat	240
ggaagaacaa	gtgactccac	cctcccctgc	acagttaaaa	tctggccaag	tgagagggga	300
gatgggagag	gggagagggg	agaaaggaga	agaggcactg	actggagggg	ctgaagcttt	360
gtcccctcctg	ggcaggcgtt	ctccatccac	accctcttct	ttggatagag	aggataagca	420
ggccaaagat	gcacgaaacc	tgagtccac	tgtagctcca	gacttctaga	aaagtcaaca	480
gcccctgtat	ctctagctga	tcctctgttg	ttcaatgtct	gcattaccgc	actgggagac	540
acttgacaga	ttgggcctgc	cgcaggccat	agcagacatt	gggcagccct	agaacgaagc	600
tgactgtcct	tggaatgtgc	cacaggggtg	tgacgccccg	gccaactcca	gtgctgccta	660
aaatggcctc	ttgcaacatt	cccctctctt	catcttaaat	cagggacttg	aagccacaaa	720
atggcaaata	cacagttctg	gcagtcgttt	tgagtattgg	agaaatcgct	ctggccatct	780
gttttgtctc	cagcatgttt	ctcacgga	atccacggat	atatccatgg	atataacaga	840
catcctgcca	aggcagagct	tggctcttga	gaactcggca	agctcagtg	ttgcctggat	900
tcctgcctca	tgtcccaccc	agtgtttgga	gaaaagctct	gagagaaaga	tgaatgtctg	960
aggccacaca	gcctagaagt	agtcaagagc	acaggctcta	gaactagccc	cacgtgggct	1020
gaaatcccag	caccagcgcc	tgccgggtgt	gtgatgtagg	agagcttctt	accagctctg	1080
tgccctcactt	gtctcacttg	taaaatgaga	ataagaattg	gccgggctcg	gtggctcacg	1140
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agaccagtct	ggccaacgtg	gtgaaacccc	cgtctctgcc	aaaaatacaa	aaattagcca	1260
ggcgtggtgg	cgggcacctg	cagtctcagc	tactcaaaa	gctgaagcag	gagaatcgct	1320
tgaacctggg	aggtggaggc	tgtcagttag	ccaagatcac	accactgcac	tgcagcctgg	1380
gtgacagagc	aagactctgt	ctcaaaaaaa	aaaaag			1417

<210> 118
 <211> 1173
 <212> DNA
 <213> Homo sapiens

<400> 118						
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tttaagaaaa	acaaaacaaa	acaaacacat	tgttttttctc	agaaccagga	ttctctgaga	120
ggtcagagca	tctcgctgtt	ttttgttgt	tgttttaaaa	tattatgatt	tggtacaga	180
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ccggtttcgg	cacagcccgg	tcactcacgg	cctcgctctc	gcctcacccc	ggctcctggg	300
ctttgatggt	ctggtgccag	tgccctgtgc	cactctgtgc	ctgctgggag	gagccagg	360
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tccgtctgcg	cccacctttg	cagaataaac	tctctcctgg	ggtttgtcta	tctttgtttc	480
tctcacctga	gagaaacgca	ggtgttccag	aggcttcctt	gcagacaaag	caccctgca	540
cctcctatgg	ctcaggatga	gggatgcccc	caggcccttc	tggttggtag	tgagtgtgga	600
cagcttccca	gctcttcggg	tacaacctg	agcaggctcg	gggacacagg	gccgaggcag	660
gccttcgggg	cccctttcgc	ctgcttcggg	gcagggaagc	ggcctggtgt	cctcgctcca	720
cccaccacag	ctgctgtcac	ctgaggggaa	tctgtctctt	aggagtgg	tgagctgata	780
gagaaaaaac	ggccttcagc	ccaggctggg	aagcgcttc	tccagggtgc	tctccctcac	840
cagctctgca	cccctctggg	gagccttccc	caccttagct	gtctcctgcc	ccagggagg	900
atggaggaga	taatttgctt	atattaaaaa	caaaaaatgg	ctgaggcagg	agtttgagg	960
cagcctgggc	tatatagcaa	gaccccatca	ctacaaattt	tttacaaatt	agctaggtgt	1020
ggtggtgcgc	acctgtggtc	ccagctactc	gggaggtctg	ggtgggagga	ttgcttgagt	1080
ccaggaggtt	gaggctgcag	tcagctcaga	ttgcaccact	gcactccagc	ctgggcaaca	1140
gagcgagacc	cggctctcaa	aaaaaaaaaa	aaa			1173

<210> 119
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (547)..(547)
 <223> n equals a,t,g, or c

<400> 119
 ncgaaaatga gaaaggtaac aatttcgaaa aagcatgccc ttctgctgtg tttccagttg 60
 tttagatgtc tgctctccat gtatatatgg atcacattcg tgtagatgg aagttgtgaa 120
 tccactgttc tctcaaaccg gtctctttcc cttgtaccta tcatagtgtg catagctcaa 180
 cttcctgagt ttgattctag tgttcaaaga taggtatttttcatataaga tgtcctgtca 240
 aagcaagtca ttgaacttac ctggtattta actgaaaaca aacaaaaatc agcaatctct 300
 tccattgctt gtagaaatac tgacttaggc caggcacagt ggctcacgtc taatcccagc 360
 actttgagag gccaaaggcag gagtatcact tgagcccagg agttcgagac cagcctggca 420
 acatagtgtg accttgtctc tgtaaaaagg aaggaaggaa ggggaaggagg gaggggtgga 480
 gggagaggag gggaggggac actctgttat acttatcgaa aggtgctatc caggtgtggt 540
 agtgcan 547

<210> 120
 <211> 556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (513)..(513)
 <223> n equals a,t,g, or c

<400> 120
 gaattcggca cgagaagatg ggcagccaat ggtgctcaaa ctcaaggact ggcctcctgg 60
 ggaagatttt cgagacatga tgccaaccag gtttgaagat ctgatggaga accttcctct 120
 gccagaatat accaaacgag atggcaggct caatctggcc tctaggctac ctagctactt 180
 tgtaaggcct gatctgggcc ccaagatgta caacgcctat ggtatgagg agaggctaaa 240
 attgctcttt tgggggactg ttgttcttat ttcaactata gaaggatatc tgtggtcaat 300
 gtcagggtata gagatgattg caggcaagtg ctggagaagt gaatagtatc caagggtggc 360
 ttgaatatgt ttgcttttgt catattggtt ttcataacat ccatgtgggc ccagaccata 420
 agcttacatg tctccagtag tgaggaagtt tctgtttaag aactctaccc aaggagccat 480
 attctcgaag gggggggccg gtacccaatt cgnccatag tggagtcgta ttacaattca 540
 ctggggccgtc cgttta 556

<210> 121
 <211> 639
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (62)..(62)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n equals a,t,g, or c

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<400> 121
tcctttcatc ttaagcacca cccgacaggg caggtactat taccatctcc gtttgacaga      60
tnaggaacct ggcacaggaa gcattttaagt ggattcccca ggatcgcccc actgtcagga      120
gcagantcag aatgggcctc agcatcaggc tcccaatcct ggcttctaac tgctgcgctc      180
tgcccttcyc tcwccccacc tccccactcc agtgcctttg gtcatgccac tgcagctttc      240
aggccaatac tggattagcc tcttagtggt cttgtccctg cagccatttc cccaggcagc      300
aattccatgt gccctcactg atgtagggtg ctcttggtgc atttgtcaca tcctattgaa      360
ttgtttatgc atcttgttca cadcacagc accctccctc tcacacgtcc tccttataaa      420
aatgtccctc agtgtctgct atgagccagg tgcagactta agtgacaggg ctgctacggg      480
aaataaaaaa ttaacaagga gcacctgcct cttaatgcac agtaacaaac tatgttaagt      540
gtcaggaagg aaaggtttaag gatgccagga aggcctttta taaataacct gacttagatg      600
ggcaggtggt gctgargatt aagaacgtgt tcttctcga                               639

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<210> 122
<211> 491
<212> DNA
<213> Homo sapiens

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```

<400> 122
ggcacgaggg aaaagcttgt gctgttagct ttaaagtgt tttaaaataa atctgaaatc      60
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atacaggttc atttttgcct tatatgcttt gagattagt tttctattta gagctgtgac      180
taatacagat gcatcacggc tgagagcaaa gcgaggtgaa tgtccctatt aattgccacc      240
atggtgcgag gctggaatga ggggtgtggc agctaagagg ggatttgctc ttctgccct      300
agaagttcct cattgtttcc tgtcctgtct tgtgtccagc tgcttagcac acttcctttt      360
ggtattttaat gctttttata gctggaaccc tgaggttcct cagaaatctg cacatgctta      420
ctagatggtg ctctggattt tctttaaaga taggaagaaa aaggcaaagg caggtctgtg      480
acgctttctta c                               491

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<210> 123
<211> 527
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (492)..(492)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (494)..(494)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (522)..(522)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (526)..(526)
<223> n equals a,t,g, or c

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<400> 123
ggcacgagaa aaattctcaa gacccatgtg aaagtcagag aggggtgtgg tggcctggct      60

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ggcctgaaga	caggtgttct	gatgattctg	gcagggggccc	ccatttgcct	ggcactgaaa	120
ttatattagt	atctttactg	tatgagcacc	gtgcccacat	gggcaagctg	tgactcctgt	180
caccaaacac	tcaggaacca	ttgcttttgg	ggcctccagg	atggtttcat	ttgtaggcat	240
ctgccttctg	ttggggctct	ttttttctcc	ttctctaag	gggacaatat	ggcaccaccc	300
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ggtgtgtacc	acagtgtact	ggagaatgcc	ctaccctcgw	aggggggggtc	ccggtaccya	420
attcgcccta	tagtgatcgt	attacaattc	actggccgtc	gtttacaaac	gtcgtgactg	480
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<210> 124
 <211> 985
 <212> DNA
 <213> Homo sapiens

<400> 124						
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tagtactgtt	tatgtctctg	accacagagc	cagtcatttt	cagcacttaa	ctgaaattgc	180
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gacaccattt	tttcttggtt	atgaccctac	ttctctttat	cttctttgtc	gattgctttt	360
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aaaaaaaaaa	aaaaaaaaac	tcgag				985

<210> 125
 <211> 2128
 <212> DNA
 <213> Homo sapiens

<400> 125						
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cctcatttct	aaagatttga	gccactagtc	gtgtccctct	ccctcagaaa	tgccctgggtg	240
acacttggtc	gctttcaact	cttccacca	tctgcctctt	ggtctcatct	ttaccttctg	300
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gtcccttgcc	agggccctcc	cagtaccctt	tctaaagaca	ccccgtcccc	agcatgctgc	720
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ctgccccacc	tggacacatg	gctcgagg				2128

<210> 126
 <211> 1355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1327)..(1327)
 <223> n equals a,t,g, or c

<400> 126						
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catttccctt	ctgtgtcctc	tttcgtgata	ttgaggtggg	acttgggttt	gaaggctttg	180
tactcacct	ggcatgcaaa	ctcttttggt	attgtgaact	ctctgacagt	gctttaagtc	240
tggggcacga	ataaataatt	ttccacacag	ctcacaactg	tagggcttac	atccagtgtg	300
tgtgcgttat	gtctgtgtgt	gtatccttat	ttttttgaga	cggagtctcc	ctctgtcacc	360
caggctggag	tgcagtggcg	cgatctcggc	tcaactgcaac	ctccgcctcc	tgggttcaaa	420
cgattctcct	gcctcagcct	cccagtagc	tgggattaca	ggcacccacc	amcacgcctg	480
gctaattttt	gtatttttag	tagagatggg	gtttctccat	gttggtcagg	ctggtctcga	540
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aagtgcagtg	gcaggatctc	ttctactgc	aacctccacc	tcctgggctc	aagtgattct	720
cctgcctcag	cctcccaagt	agctgggtatt	tcagacttgc	accatgatgc	ctggctactt	780
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tcgccggcct	cccgcgccgg	ggtgtggtgc	ctttgttctg	agtcatacaca	agtgccatca	1320
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<210> 127
 <211> 791
 <212> DNA

<213> Homo sapiens

<400> 127

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gccatgagca	aagaggaggt	cgacaggtac	aattttgtga	tgctggccct	gtcctcctca	120
ttcctgggtg	tatcctatct	cttgaccctg	tggtgtggca	gcgtgggctt	catcttggcc	180
aactgcttta	acatgggcat	tcggatcacg	cagagccttt	gcttcatcca	ccgctactac	240
cgaagagccc	ccacaggccc	ctggctggcc	tgcacctatc	gccagtccctg	ctcgggacat	300
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ggccagccag	actggcacac	attgctgtgg	gggccttctg	tctggggagca	actctcggga	420
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gacgcactga	caaaatgacg	tgacttcagg	gaagcctgga	cacccgaggc	acctggacca	540
gctatgggta	gttctgtggg	tggaacacat	tctgtgtaag	agccccactg	agggctctgc	600
agcggagtga	cagcaacccc	agagatgagg	caccagagag	tgccactgca	tgagacacct	660
gtgaccattc	gaagtctgaa	atgcgggggg	ggagtttcat	tttaagtga	agaccaaag	720
ccctttaaaa	ataatagttt	tttatcattt	tatagtaaaa	aaaaaaaaaa	aaaaaaaaaa	780
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<210> 128

<211> 2087

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 128

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tacacttcca	gcttttaaaa	ttctccttta	catgtgctca	gtgttttggt	ttgtgttttg	120
gtttctgttt	tttattttaa	ttccacatt	gggcacaaga	atcgaatat	ggatagctag	180
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aatgaaatgg	gcgctcacag	ttttggtttt	cagctcttca	tgtctgtaag	tgtgcttttg	360
gggaggctat	gtctgtatgg	tcgattctca	gttatcacat	ttgcctctcc	tccactacc	420
ttcatggaca	ttcagtgtcg	tttcgcactg	cagttagaga	gaagggacgg	acagttagtg	480
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aagcccacat	agtgggaata	aattgcttca	gccattttta	gtatttgaga	gcactaggga	840
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gttttggtt	aaaacattta	aagatttttg	aagcagct	actccccacg	tggcatttga	1020
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ttaaaaaatt	atataaactg	ttaaaaatatt	aacacctcag	gctacctgct	gtattctgtc	1140
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tcttttattt	cctttttttt	ttatatttgc	tttcctttct	actgctttta	gattgcagg	2040
agatgcaagt	ttcagctcaa	tgtttggtct	ctctcaatat	ggaaatt		2087

<210> 129
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 129						
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tggggagtgc	cagatgtcac	cacttttctg	tcttcctctg	gggctggtca	aatccccctg	120
agaaaactcc	tctggcctcc	tggcgggggg	tgaaggccag	gctgccagg	ccaggctgcc	180
agcttctggg	agctgcagg	gcagaggcag	ggagctgtca	ggcattcagc	cagcaagacg	240
cactcagtac	ccacttgggg	ttcagaatcc	ccctccctca	tcttcagatg	ggcagatgt	300
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gggggtgggg	gaagagtaag	gggagagggg	aaacgagatt	tggagggtcta	gctgctgctg	420
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ccttttgagg	actttgtac	cggttctcag	catccctcaa	ttgctggctt	aggattcatg	540
ggtttttagg	ggtgggggtg	gattagcatg	tccagctgct	ttccagtttc	caaagttctg	600
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<210> 130
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (482)..(482)
 <223> n equals a,t,g, or c

<400> 130						
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tgggtgatct	ctaaggacca	ccattttgag	gatctcttat	aatgtatgat	gacatttttc	180
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gctcaaaaaa	gaaaatccag	gaaacagctt	cccaggcctg	ccttctggt	ccccctcagt	360
tcccaaaaca	cacaaaccag	gacaaaacac	cacttcagtt	ttctgcatct	tatagtctta	420
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anccccctgt	gtgataatgt	caagagaact	aaggtttggt	cccagaccca	acaataacta	540
ccaataggaa	tctgggtagc	atcttttaaa	ttcttttagtc	ttcagttctta	tctgtaaaaac	600
atgggactgg	tctagataat	ttctccaact	ccaaaattca	atcatgttct	taatattaaa	660
aatcctctag	tccatagatt	tttgtattct	ctccctggta	aatcctggta	atttcacagg	720
gatgtttgaa	actgaaatat	cctgggaaaa	gtagattttt	gtcaagtcca	ctccaattta	780
aaaccatact	gaagtacat	tttcactcat	aattataaat	taaaaaatga	cactatcgag	840
ggttgataag	attatagaga	gatggctatt	ttcatgttgc	cagtgagaat	ataaaattcc	900
catttgggga	aaaaatttat	actatctatt	caaaagtatt	atgcacttaa	tctatgactt	960
gacaattcca	tttctcatgt	tcatttttga	ggattactga	cacatattct	atgcaagaat	1020
gtgattgata	gcattgtttt	catttgagac	cagcctgggc	aacatagtga	gaacctgtct	1080
ctacaaaaaa	tttaaaaaaa	aaaaaaaaag	gcggccgc			1118

<210> 131
 <211> 682
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (624)..(624)
 <223> n equals a,t,g, or c

<400> 131
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 ggctaataaaa taataatttg caatatatag attgtatttt gtctttgaaa cgctgtgagg 120
 agatcctctt aatgtggcat ggtctgcttc tatgccttgc ttctgtgttt cttgagctcc 180
 gtggagatag gccccctctc ctggcttctc tgcttgagcc acataaaatg ccacttcaca 240
 gctcttccct ttgaagcctg atccagtatg catttgagc taattactgc agttgacaca 300
 actccatcta aaagcgtcat gaaagattct gtaatcactg ataagaaaat gatcttgcaa 360
 attattgctg tgtcctcctt tattgcctct ttaccttaac agtacagttt acaataatgt 420
 aaattttttt ctaatctttc aactttaacc ctagaaattg tagatgtttt agcagtggtt 480
 atgtgatatt ggcacaacat aactatataa tttgctcaat attgtggtgc atacctgtaa 540
 tcccagctgc tcaggagtct gaggcattgag aatcacatga acccaggaga tggagggtgc 600
 ggtgagctga gagcgagtca ctgnactcca gccaggacga cagagtgaac ccctgtctca 660
 aaaaaaaaaa aaaaaactcg ag 682

<210> 132
 <211> 1126
 <212> DNA
 <213> Homo sapiens

<400> 132
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 caagggaggc actgtgggtct ggtggataag agtgggagtc ccaatccttt ctccgcagat 180
 gtgctagctg tgcactctgg gcaagtttct cactctcctg agcctcagcg tctttatcaa 240
 tatgacgaga ataaatacag cacctgccta cctcatgggg ttgtttcagc agtcaatgag 300
 atcatgtata tgaagcattt agtataccta gcacctata aaagctcaac aaccagtagt 360
 cttattacta acaaaatgga gctgaagga tgcattagtt taaacaaaat cttgaggcag 420
 atactgggag tacctgtctt tattcttcaa cttgagtctc ctcccagttt gtttgataa 480
 aaactcaaat gtaatatatt taatttgggt aaaagaactt ctgagaaagg gttgaacatc 540
 tatccacttg cttttttatg cctagggaac tagagatact tgttggcggc atcgaaatg 600
 ttgctgactt atgaagtact gcagtatctg aatacctttt ttaggataa tctaaagttt 660
 ccaaaaaata gtatagtgtt gtagtgaaga acttggaact ttaagccaga ttattttgtt 720
 cagattcaga aatcccctcc actccacca ctggctgtat agccttgccc aaatcactga 780
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 cacaaagata attcttggca ctaagcttaa aaaaaaaaaa aaaaaa 1126

<210> 133
 <211> 2520
 <212> DNA
 <213> Homo sapiens

<400> 133
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ccccaaacaa	gcgagctgaa	ttccttcttg	tggaccatta	agcgagaccc	accatcttac	180
ttctttggca	caatccatgt	cccgtaacac	cgagtttggg	acttcatcc	cgacaactct	240
aaggaggctt	tcctgcagag	cagcattgtg	tactttgagt	tggatctcac	agacccttat	300
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<211> 1462

<212> DNA

<213> Homo sapiens

<400> 134

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<211> 2079

<212> DNA

<213> Homo sapiens

<400> 135

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2079

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<213> Homo sapiens

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<400> 136
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 <212> DNA
 <213> Homo sapiens

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<211> 2087

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (56)..(56)

<223> n equals a,t,g, or c

<400> 139

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<211> 2571

<212> DNA

<213> Homo sapiens

<400> 140

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 <213> Homo sapiens

<400> 141						
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 <212> DNA
 <213> Homo sapiens

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ggaccaaggg	cttcacagag	gccagaagtt	cagaggtgga	cataaaaggt	gttaggagaa	2580
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tcactccc						2648

<210> 145

<211> 566

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 145

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<210> 146

<211> 1274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (722)..(722)
 <223> n equals a,t,g, or c

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<400> 146
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ggtgcggcgc gggacaagcg ggcagcatgc tcagggcggg cgggagccta ctgcgccttg      180
gccgcgggct aacagtcgcg tcgcggcccc gggcgccctc cgaggccacg cgacggcccc      240
caccggctct tccgccccgg ggtctcccct gctactccag cggcgggggc cccagcaatt      300
ctgggcccc aagtcacggg gagattcac gagtccccac gcagcgcagg ccttcgcagt      360
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ggatcccgcc agaaatgata gacaccgcaa gaaacaaagc tcgagtgaag gcttggtaca      480
taatgattgg actcacaatt atcgcttgct ttgctgtgat agtgtcagcc aaaaggggt      540
tagaacgaca tgaatcctta acaagttgga acttggcaaa gaaagctaag tgscgtgaag      600
aagctgcatt ggctgcacag gctaaagcta atgatattct aagtgcacaa gtgttcacct      660
gaataccatc cctgtcatca gcaacagtag aagatgggaa aaatagaata tttacaaaaa      720
tntctgccat ggttttattt tggtaacaag aagcacaatg tcttttttat ttttattttt      780
tagtaaaact ttactgaagt ataccatgca ttcaaaaagt ggacaaaact gtatacagtc      840
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ccacaaattg tgtgtacatc tagttcatcc attgtcattg ctgtattctg ttgtataaac      1140
ataccacaat ttattttgat atttggcaca gtttctggcc actacatata atgctaaaat      1200
gagcacattg tatatgtcat taaaatgagg ttgaactaaa aaaaaaaaaa aaaaaaaaaa      1260
aaaaaaaaact cgag                                     1274
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<210> 147
 <211> 2543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2538)..(2538)
 <223> n equals a,t,g, or c

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tctccctccc ttgcctcaga tttattgcta aacatgggtg catttttggg taaacccaaa      120
actgaaaaac ataatgctca tgggtgctggg aatgggtttac gttatggcct gagcagcatg      180
caaggatgga gagtggaat ggaagatgca cacacagctg ttgtaggtat tcttcacggc      240
ttggaagact ggtcattttt tgcagtttat gatggtcatt ctggatcccc agtggcaaat      300
tactgctcaa cacattttatt agaacacatc actactaacg agacttttag ggcagctgga      360
aaatcaggat ctgctcttga gctttcagtg gaaaatgtta agaatggat cagaactgga      420
tttttgaaaa ttgatgaata catgcgtaac ttttcagacc tcagaaacgg gatggacagg      480
agtgtttcaa ctgcagtggg agttatgatt tcacctaaagc atatctactt tatcaactgt      540
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caacgtgtta atggttcatt agcagtatct cgtgctctgg gggactatga ttacaagtgt      720
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gaaggaaatgc ctgatcttgc ccatgtcatg cgcactctgt ctgcagaaaa tatcccaaat      1140
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ttacatgttg	tggtagcttt	gtaaacattt	tcctgtatgt	ttaaattgtg	tttcagcagg	2520
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<212> DNA
<213> Homo sapiens

<400> 149
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aagaagtttt ttaaaaaaaa aaaaaaaaaa aaaa 1414

<210> 150
<211> 323
<212> DNA
<213> Homo sapiens

<400> 150
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gtattgtctg tcctcagttt tgccctggga aatggaggst cagtgcagtt cagtgcagtg 180
cccagatga tgccattggc ggggtggcca gkgmtccagg tctccagcac ccctcgcc 240
cctcctcacc aggtcacatc atctcctgga ttagaatctg ctcacatagt ctgtcctgaa 300
aggaaaaaaaa aaaaaaaaaa aac 323

<210> 151
<211> 1539
<212> DNA
<213> Homo sapiens

<400> 151
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<210> 152
 <211> 805
 <212> DNA
 <213> Homo sapiens

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<210> 153
 <211> 773
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (459)..(459)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (503)..(503)
 <223> n equals a,t,g, or c

<400> 153	
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ctgacaacta	taaaatattt
	60
	120

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<210> 154
 <211> 1388
 <212> DNA
 <213> Homo sapiens

<400> 154						
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catcatactt	agattttatat	taatatttct	tttcaaaacta	aattattcca	aactgtgccc	180
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gactcatgag	gacattgggtg	gctacagctg	cttctggcac	tgcccccca	accccccagt	480
gaggtgaact	tctttacaa	tccagcaagc	tttagttatc	ttcttctccc	atttgagata	540
actgtggcta	caagaatctc	agttaaatca	gatgttttaa	ttaggtgcc	aaaaatctta	600
cagacactga	actaatactt	aatcaagga	acacttcagt	tctccataaa	atctggtgcc	660
attttccaaa	gaaacagagg	atctttgttt	cacaccgtg	gtactggah	tgcaacagtg	720
aggcattcta	gctctcacat	gccaatgcga	gtggcattca	ttcttgctca	ctcatttctg	780
cttctcattg	tcacacttgg	aggctctttg	ggggtatgtt	tcagttgatc	tgagaaactg	840
gggtgttacca	atttactaga	gagtttctta	aaatgtatct	gaaacaaact	attaatgggc	900
attctgtggt	ggtaaaacca	ggcaacgcct	ccctacacta	tctgtccttt	cagagctaag	960
aatctgttat	tttgaattgt	tcacgaagag	tgattctgac	tctgcttcag	tgcacacttt	1020
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aggatatgtg	ccgggcgtgg	tgctcacgcc	tgtaatccca	acatttggg	aggacaagga	1140
gggtggatca	cctgagggtca	ggagttcgag	accagcctga	ccaacatgga	gaaaccctgt	1200
ctttactaaa	aatacaaaat	tagctggacg	tggtggcaca	tgctgtgat	cacagctact	1260
caggaggctg	aggcaggaga	atcgcttgaa	cccaggaggc	ggaggttgtg	gtgagccgag	1320
atcacgtcac	tgcaactccag	cctgggcaac	aagagtga	ttccatctca	aaaaaaaaa	1380
aaaaaaaaa						1388

<210> 155
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (424)..(424)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (430)..(431)
 <223> n equals a,t,g, or c

```

<400> 155
cggccgctct agaactagt gatcccccg gctgcaggaa ttcggcacga ggcgggaagg      60
cttattccaa ggtaagagg gctgtgtgaa ggggcagtgg gatggaatgg ggggtggcat      120
gggacaggca caagggaagc ctccagcccc ttttctgcca caagcaagag gactcagcc      180
ctacctgaga tgtgttattt tttagaaata tctttattga tggctcttgc actcaatata      240
aaggcagcat atggttgttg caatataaat ggtacagaag tccacagagc aaaagggcca      300
gtttctgtcc cttttctct ctccaggcct cttctggga cccattatt ggatagatta      360
agacctttcc agaccttgta aaaaaaaaaa aaaaaaactc ggggggggsc ccggaacca      420
attingcccn naa                                     433

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```

<210> 156
<211> 795
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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```

<400> 156
ngaactagta tattcaccgt ctatgaggcc gcctcacagg aaggctgggt gttcctcatg      60
tacagagcaa ttgacagctt tccccgttgg cgttcctact tctatttcat cactctcatt      120
ttcttcctcg cctggcttgg gaagaacgtg ttattgctg ttatcattga aacatttgca      180
gaaatcagag tacagtttca acaaagtgtg ggatcgagaa gcagcactac ctcaacagcc      240
accacccaga tgtttcatga agatgctgct ggaggttggc agctggtagc tgtggatgtc      300
aacaagcccc agggacgcgc cccagcctgc ctccaggtgc agtacaatga catttttaaa      60
aatcgccccag caaaggtctt tgaattttat ttcattccaag aaaatccaca gctctttaag      420
ctctagattt gtccaaattt aaaatcctga agttagagat ggtatttcac tccttcctct      480
attcccagga cctagctttt tttttttaac atacacaata gggatttgat aagtttctga      540
tggctgcagg catgtaagag catttcagg gtattgaatc aatgaagaat tttgttgaca      600
tgtgaaatct tataaaaaata ttctttaccg aaggactgag ttatgtggca gtgggtacat      660
tcattgtttc atccctcccc tagtaactgg gataaatatg ttgatacata gtctctctgt      720
ttttctgcat ttggaagctt tcagaggaac ataatgtaga ggtgtttctt tagcaaaagt      780
cactgatagc aaaca                                     795

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<210> 157
<211> 1443
<212> DNA
<213> Homo sapiens

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<400> 157
ggaaccattg gcctatatgt ggttggatct attattatga gtgttggtgt ttttgtgcca      60
ggaacattg tagggaagta tggaacaga atttgccttg cttttttctt aagcatacca      120
tatacttgtc ttctgtctg ggctggtttc agaatctata atcagccatc agaaaattat      180
aattaccctt caaaggttat tcaagaagcc caagcgaaag acctgctgag aagaccattt      240
gatttaattg tggttgtgtg tctcctcctg gcaactggat tttgcctggt cagaggttg      300
attgctttgg attgcccatc tgagctctgc cgattatata cgcaatttca agagccctat      360
ctaaaggatc ctgctgctta tcctaaaatt cagatgctgg catatatgtt ctattctggt      420
ccttactttg tgactgcact gtatggctta gtggttcctg gatgttcctg gatgcctgac      480
atcacattga tacatgctgg aggtctggct caggctcagt tttctcacat tgggtcatct      540
cttcatgcta gaactgctta tgtctacaga gtccctgaag aagcaaaaat cttttttta      600
gcattaaaca tagcatatgg agttcttcct cagctcttgg cctatcgttg tatctacaaa      660
ccagagttct tcataaaaac aaaggcagaa gaaaaagtgg aataaaaaata tcttcatg      720
ttctctcttt ctaaaattact aacttttgtt atactggtac tgatattttg tccatttca      780
ctctcttctc atacgtgagt acttaagaat atgtacattc ttgctctgca ctgtatgtgt      840

```

gagctatatg	gtattgtgta	aatttttttt	gaaggaaaa	ggaaattctt	gagaaacagt	900
ttgttttaa	aaatatattc	aaaatcattt	gtgaataaac	ttgatcatcc	atctcaatat	960
tgtttgacat	ataaaataat	tataagtgtg	aaaaattaca	atttagtgcc	aacagtagtg	1020
agcatgaaat	gaaactattc	aaaagagaa	atggcctgtg	catattaaaa	aattcaaaac	1080
agtgaatgca	gactggagga	gtaacttttg	caaataagat	gaatatgtt	cattattaaa	1140
ctcaatataa	aaggcaaata	atcagaatat	ttttaaatgt	tgtttgaaaa	atgttttccc	1200
aaggaaagtt	tattatttgc	tgctgtttca	agaaaattac	ttttactaaa	tttttttgtg	1260
tgaatttaaa	cagctaaata	gggatcagta	actttatctc	tatccttaat	gaacatttgt	1320
tttattggtg	gctggaaata	tttctattgt	atttctgtgt	atatttttaa	taaaattatt	1380
tttggcctct	taaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaactc	1440
gag						1443

<210> 158
 <211> 809
 <212> DNA
 <213> Homo sapiens

<400> 158						
ggcacgagga	gaatcatggg	cctctggctg	ggcatgctgg	cctgtgtctt	cctggcaact	60
gctgcctttg	ttgcttatac	tgcccggctg	gactggaagc	ttgctgcaga	ggaggctaag	120
aaacattcag	gccggcagca	gcagcagaga	gcagagagca	ctgcaaccag	acctgggcct	180
gagaaagcag	tcctatcttc	agtggctaca	ggcagttccc	ctggcattac	cttgacaacg	240
tattcaaggt	ctgagtgcca	cgtggacttc	ttcaggactc	cagaggaggc	ccacgccctt	300
tcagctccta	ccagcagact	atcagtgaat	cagctgggtc	tccgccgtgg	ggctgctctg	360
ggggcggtg	cagccacact	gatgggtggg	ctcacggtca	gatcctagc	caccaggcac	420
tagcaaagaa	gcttggaat	agaaagccag	gagtggctgt	ccccagtatg	caaacacacc	480
acggtctgcc	ctgcaaaaac	accaatgggg	tctagtgcag	gtggacactt	tgaaccactc	540
ctcaaaaaaa	gaactttggc	tgattccttg	tggtgacact	cagaggggtc	tgaacagact	600
tgacaattct	gttctgggtc	agctggagtt	ttcttctgtg	acttggactg	ctctacagaa	660
gacatcaccc	aactgcacga	gtcagagtcc	agggattgtc	actattatta	ataatgtaaa	720
tggtttcaaa	tgggacactg	cagataaaa	cacaaaaaac	actgttatat	taaagattac	780
acatttctct	gaaaaaaaaa	aaaaaaaaaa				809

<210> 159
 <211> 868
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<400> 159						
ggncacgagg	ttaactgtka	caccatgatt	actgaggtaa	gacatgtccc	tccagtcctg	60
tggcagcaac	tgattttgct	tatgcaaagc	cgtgctattc	ttctgctggt	ggttagcctt	120
tgcttttagag	gacttccctc	ctattccatg	tgcttggaag	tgatgagcag	agggaagact	180
ttcaacgtaa	atcctggtgg	tccatctgga	ccactgccac	caaccaaggt	ggtcacatgg	240
ccagacagaa	ctaactctgt	tcctacccca	gaactgagt	agaaatgtcc	aaagtttaaa	300
gccttggctg	ggcgagtg	ctcgcatgtg	tagtcctagc	actttgggtg	gccaaagtgg	360
gtasagcact	tgagcccagg	agttcaagac	taaaacctgg	gcaacagcga	gaccctgtct	420
ctacaaaaag	tttaaaaatt	agctgagggt	ggtggtgtgc	acctgtagtc	gtagtaytca	480
ggaggctgaa	atgggaagat	cacttgagcc	cagaaatttg	aggctgcagt	gaactaaaaa	540
ggtgctatgg	taytctagcy	tctagtctgg	gtgacaaagc	agaaccctg	tctcaaaaat	600
caattaaaaa	acaggccagg	tgttggggct	tgtgcctgta	atcccaacac	tttgggaggc	660
catggcgggt	ggatcacctg	aagtcaggag	tcgagacca	gcctggccaa	catggtgaaa	720
ccctgtatct	ctactaaaaa	tacaaaagtt	agccaggcat	gttgggtgcat	gcctatggtc	780

ccagctactc	gggaggctga	ggaaggagaa	ctgcttgaac	tcaggaggcg	gaggtgcagt	840
gagctggaat	tgtgtcactg	cactccag				868

<210> 160
 <211> 1986
 <212> DNA
 <213> Homo sapiens

<400> 160						
ggcacgaggg	aaaactgttt	tatttgcatt	tgaagaagct	attggataca	tgtgctgccc	60
ttttgttctg	gacaaagatg	gagtcagtg	cgctgtcata	agtgcagagt	tggctagctt	120
cctagcaacc	aagaatttgt	ctttgtctca	gcaactaaag	gccatttatg	tggagtatgg	180
ctaccatatt	actaaagctt	cctattttat	ctgccatgat	caagaaacca	ttaagaaatt	240
atltgaaaac	ctcagaaact	acgatggaaa	aaataattat	ccaaaagctt	gtggcaaaatt	300
tgaattttct	gccattaggg	accttacaac	tggctatgat	gatagccaac	ctgataaaaa	360
agctgttctt	cccactagta	aaagcagcca	aatgatcacc	ttcacctttg	ctaattggagg	420
cgtggccacc	atgcgcacca	gtgggacaga	gccccaaatc	aagtactatg	cagagctgtg	480
tgccccacct	gggaacagtg	atcctgagca	gctgaagaag	gaactgaatg	aactggctcag	540
tgtctattgaa	gaacattttt	tccagccaca	gaagtacaat	ctgcagccaa	aagcagacta	600
aaatagtcca	gccttgggta	tacttgcatt	tacctacaat	taagctgggt	ttaacttggt	660
aagcaatatt	tttaagggcc	aatgatttca	aaacatcaca	ggtattttatg	tgttttacaa	720
agacctacat	tcctcattgt	ttcatgtttg	acctttaagg	tgaaaaaaga	aaatggcaa	780
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agtgaagatt	tttaactga	ctaacttaaa	aaaatagatt	gtaattgatg	tgccttaatt	900
tgcataaatc	ataaatgtat	gtcctctctg	taattgtttt	aatgtgtgct	tgaatatcc	960
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tgaactcat	ctttttaaat	cttgaaaaac	caattgttta	cttgaaactt	gaaagtagca	1320
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aattttcta	aatcaaataga	tttattattt	aatctgtacc	ttctatcttc	tcataattcg	1560
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tgattacact	caacctaaat	agttatgaac	agtttcagaa	caatgaaaaa	ttacaatact	1740
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actcttaaat	ctataatatt	cgatatattc	tacaaactgc	tttattgtag	aagccatatt	1860
tatgtttatt	ttataatgtt	ttctagtgtc	aaactgtact	gtggagaaaa	gaaatgttag	1920
atctgtgttc	tgtctgcatt	ttttttgagt	acataccctt	caccctcaaa	aaaaaaaaaa	1980
aaaaaa						1986

<210> 161
 <211> 657
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<400> 161						
cccccccg	gntgcaggaa	ttcggcacar	attttacatg	cttttaagtt	aatgttggaa	60
aactaatcac	aagcagtttc	taaaccaaaa	aatgacatgt	tgtaaaagga	caataaacgt	120

tgggtcaaaa	tggagcctga	gtcctggggc	ctgtgcctgc	ttcttttct	gggaacagcc	180
ttgggctacc	caccactccc	aaggcattct	tccaaatgtg	aaatcctgga	agtaagattg	240
caccttcttc	ctctcctgat	caacatcggt	atgatgtct	ctgttgcctc	accctttgtc	300
tgcagtatca	ctggatagga	ctgggtggaaa	gggagcagcc	tgacagagct	ccaaatgtgg	360
agaatatggc	atccctccac	ctatatattga	tgtggacggt	aaggctaggc	ctgcaggatc	420
ccttatcctg	accaaagact	gtgttggggg	gccatttgaa	aatcgaggg	ttgcaaaaga	480
atacaatctt	acttgcaggt	ggatattctc	tatactctct	tttaatgcat	ctaaaaatcc	540
caaacatccc	ctgggttggtg	atcacttaca	gttgtgtcca	cctttatttt	atgtactttg	600
attaaaaaaa	aaaaactttt	tgtaatatata	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa	657

<210> 162
 <211> 2425
 <212> DNA
 <213> Homo sapiens

<400> 162						
cgctgccgat	cgccgggaggg	acccccgcct	cgccgaagac	ggcgggggca	agccgagcct	60
cacgggggtcc	ccggagctgg	gccggggcctc	cagatggaga	aggcgcaacg	gggagttctt	120
gagtaagcca	gagcgggtgtc	cagcgcggtg	tagccgcagc	cgccgctgtc	aggcgagca	180
acggacaacc	ccgtagaagt	cggtcggcag	gtcctctcca	acccgcccgt	accgcgccgc	240
tgtgggagag	accccagcag	gagcccaagg	gcagctacgg	ggcgcggaag	gccgctggcg	300
ccgcctcggc	cagcccttcc	cgcgcggttc	cactgcctta	aggatgacag	tcgtagggaa	360
ccctcgaagt	tggagctgcc	agtggttgcc	aacctgata	ctgttgctgg	gcacaggcca	420
tgggccaggg	gtggaaggcg	tgacacacta	caaggccggc	gaccctgtta	ttctgtatgt	480
caacaaagtg	ggaccctacc	ataaccctca	ggaaacttac	cactactatc	agcttccagt	540
ctgctgccct	gagaagatac	gtcacaaaag	ccttagcctg	ggtgaagtgc	tggatgggga	600
ccgaatggct	gagtctttgt	atgagatccg	ctttcgggaa	aacgtggaga	agagaattct	660
gtgccacatg	cagctcagtt	ctgcacaggt	ggagcagctg	cgccaggcca	ttgaagaact	720
gtactacttt	gaatttgtgg	tagatgactt	gccaatccgg	ggctttgtgg	gctacatgga	780
ggagagtgg	ttcctgccac	acagccaa	gataggata	tggaccatt	tggacttcca	840
cctagaattc	catggagacc	gaattatatt	tgccaatggt	tcagtgcggg	acgtcaagcc	900
ccacagcttg	gatgggttac	gacctgacga	gttcctaggg	cttaccaca	cttatagcgt	960
gcgctgggtct	gagacttcag	tggagcgtcg	gagtgcaggg	cgccgtgggtg	acgatgggg	1020
ttcttttct	cgaacactgg	aaatccattg	gttgtccatc	atcaactcca	tgggtgcttg	1080
gtttttactg	gtgggttttg	tggctgtcat	tctaattgct	gtgcttcgga	atgacctggc	1140
tcggtacaac	ttagatgagg	agaccacctc	tgcaggttct	ggtgatgact	ttgaccaggg	1200
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gctctgtgct	gtgcttggcg	tgggtgcccc	gttcctggcc	cttggcactg	gcattattgt	1320
catggcactg	ctgggcatgt	tcaatgtgca	ccgtcatggg	gccattaact	cagcagccat	1380
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tttcttctctg	acgtggagtg	tggatgaactc	agtgcattgg	gccaatggtt	cgacacaggg	1560
tctgccagcc	acaaccatcc	tgtgtcttct	gacggtttgg	ctgctgggtg	gctttccctt	1620
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tgccacagta	tggggtcggg	agcagtacac	tttgtagggc	atcctctct	ttgtcttcgc	1860
catcctgctg	agtgtggggg	cttgcatctc	cattgcactc	acctacttcc	agttgtctgg	1920
ggaggattac	cgctgggtgg	ggcgatctgt	gctgagtgtt	ggctccaccg	gcctcttcat	1980
cttctctctac	tcagttttct	attatgcccg	cgctccaac	atgtctgggg	cagtacagac	2040
agtagagttc	ttcggtact	ccttactcac	tgggtatgtc	ttcttctca	tgtggggcac	2100
catctccttt	ttttcttccc	taaagtccat	ccggtatata	tatgttaacc	tcaagatgga	2160
ctgagttctg	tatggcagaa	ctattgctgt	tctctccctt	tcttcatgcc	ctgttgaact	2220
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tgcccttttg	gcattccttc	cccagagagg	gcctggaaat	tataaatctc	tatcacataa	2340
ggattatata	tttgaacttt	ttaagttgcc	tttagttttg	gtcctgattt	ttctttttac	2400
aattaccaa	ataaaattta	ttaag				2425

<210> 163
 <211> 1174
 <212> DNA
 <213> Homo sapiens

<400> 163
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 gatggggctg ccagtgtcct gggcccctcc tgccctctgg gttctagggt gctgcgccct 120
 gtcctctctg ctgtgggctg tgtgcacagc ctgccgcaggcccgaggacg ctgtagcccc 180
 caggaagagg gcgcggaggc agcgggagag gctgcagggc agtgcgacgg cggcggaagc 240
 gtccctactg aggcggaccc acctctgtc cctcagcaag tcggacacca gactgcacga 300
 gctgcaccgg ggcccgcgca gcagcagggc cctgcggcct gccagcatgg atctcctgcg 360
 cccacactgg ctggagggtg ccaggggacat caccggaccg caggcagccc cctctgcctt 420
 cccacaccag gagctgcccc gggctctgcc ggcagctgca gccaccgcag ggtgcgctgg 480
 cctcgaggcc acctattcca acgtggggct ggcggccctt cccgggggtca gcctggcggc 540
 cagccctgtg ttggccgagt atgcccgct ccagagcgcc aaagggaccc atcgcagtc 600
 ccaagagcca cagcagggga agactgaggt gaccccgcc gctcaggtgg acgtcctgta 660
 ctccagggtc tgcaagccta aaaggaggga cccaggaccc accacagacc cgctggaccc 720
 caagggccag ggagcgattc tggccctggc gggtagcctg gcctaccaga cctcccgcct 780
 cagggccctg gatgtggaca gcggccccct ggaaaacgtg tatgagagca tccgggagct 840
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 cccagccta gggaggggct ggagaccct cctgcctcc ctgccctgaa cactcaagga 960
 cctgtgctcc ttctccaga gtgaggcccg tccccgcgcc cgccccgcct cacagctgac 1020
 agcgccagtc ccagggtcccc ggcccgccag cccgtgaggt ccgtgaggtc ctggccgctc 1080
 tgacagccgc ggctccccg ggctccagag aaggcccgcg tctaaataaa gcgccagcgc 1140
 aggatgaaag cgaaaaaaaa aaaaaaaaaa aaaa 1174

<210> 164
 <211> 1112
 <212> DNA
 <213> Homo sapiens

<400> 164
 gccggaggaa gagcgtctgc aaaactgggt tcttagaagt atagacggac ttagctttttw 60
 ttagaatttg gtgaggagca gcgcctcgtg agagcagaat ggccctggcg ggccagtgc 120
 tcccggcagc acgcagctct gcggcctcga gaattcccct gttctgagct tgatgccctt 180
 agcctgtccc ctacctactt cctccccctc tctctagccc tctcacaggg gtgattgcta 240
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 atgaatgttt attttcctga aggtattttt aagataaagc ttctaataatg cgtgtaaact 960
 ttgcatatgt atgtagtgtg atacatattg tcacatttga aaatcttgtg ggttgtaact 1020
 ggtttttatac aaaatatcga atagtggaaa ttgtataatt acaatcatgt aattaaaagt 1080
 attaacccaa aaaaaaaaaa aaaaaaytcg ag 1112

<210> 165
 <211> 1097
 <212> DNA

<213> Homo sapiens

<400> 165

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gaatctggag	atgcgttttt	ggtttttggt	tttttgtttt	tttttttttc	cagaggctca	180
tgtatatacct	acatcatggt	cagtttcaga	gcagggctgt	gccaccatct	cagtgactcc	240
tggaatacta	aattggatct	ttgtagagga	agaaaataac	acagttctag	attttcccta	300
gctgttaatt	agttttatgg	cataattaaa	atagctcagg	agtaaaaaca	aagtcagcc	360
ttaacagcct	gttaagtctt	cttttcttat	cttgaaaaga	ggtaaga	tgaagtttaa	420
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ctcttgat	atgaaccaga	attgagggaa	aataggcagg	agggaacca	cactgaattt	540
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taatattgct	catatctgaa	tcccaaaaga	aaagaagatg	tttgtctgag	catcccatga	660
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cacgtttcaa	aattggccct	ggacgccatc	gcaagaggaa	aattccaaag	ctgtgcagca	960
gcggcagtac	cattggaaga	gtttacagcc	taccaggact	acttagaagg	ggatcatggt	1020
tatttgata	tataaccctt	gattggtttg	ttttaaaaat	aaacgttatt	atgttagtgt	1080
caaaaaaaaa	aaaaaaa					1097

<210> 166

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 166

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gaagatgaag	gtggtggagg	agcccaacgc	gtttgggggtg	aacaaccctg	tcttgccctca	180
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ccgactctcg	ggcaagtgt	tcagcctggt	ggagtcacag	tacaagtatg	agttctgccc	300
gttccacaac	gtgaccagc	acgagcagac	cttccgctgg	aacgcctaca	gtgggatcct	360
cggcatctgg	cacgagtggg	agatcgccaa	caacaccttc	acgggcatgt	ggatgaggga	420
cggtagcgcc	tgccgttccc	ggagccggca	gagcaagtg	gagctggcgt	gtggaaaaag	480
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gcggcagtg	gaccaggtag	agcaggacct	ggccgatgag	ctgatcacc	cccagggcca	660
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gacgcccaga	gccaaagtct	cagagcagct	gcggggtgac	ccaggactgc	gtgggagttt	960
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tggtaggacc	cgcagggacc	agctgaccag	gcttggtgct	agagaagcag	acaaaacaaa	1080
gattcaaggt	tttaattaat	tcccatactg	ataaaaataa	ctccatgaat	tctgtaaacc	1140
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<210> 167

<211> 1304

<212> DNA

<213> Homo sapiens

<220>

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<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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<400> 167
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tttagaatcc tgcagcagcc caccatctaa gagcaagagc caaagatgtt tgtcttgctc      120
tatgttacaa gttttgccat ttgtgccagt ggacaacccc ggggtaatca gttgaaagga      180
gagaactact cccccaggta tatctgcagc attcctggct tgcctggacc tccagggcc      240
cctggagcaa atgggtcccc tgggccccat ggtcgcatcg gccttcagg aagagatggt      300
agagacggca ggaaaggaga gaaaggtgaa aagggaactg caggtttgag aggtaagact      360
ggaccgctag gtcttgccgg tgagaaaggg gaccaaggag agactgggaa gaaaggaccc      420
ataggaccag agggagagaa aggagaagta ggtccaattg gtccctcctg accaaaggga      480
gacagaggag aacaagggga cccggggctg cctggagttt gcagatgtgg aagcatgtg      540
ctcaaatacc ctttttctgt tggcatcaca accagctacc cagaagaaag actacctatt      600
atatttaaca aggtcctctt caacgaggga gagcactaca accctgccac aggggaagttc      660
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ctggcaatcg gactgtgata caatgggcaa taccggataa agaccttga cgccaacaca      780
ggaaaccatg atgtggcttc ggggtccaca gtcactatc tgcagccaga agatgaagtc      840
tggctggaga ttttcttcac agaccagaat ggcctcttct cagaccagg ttgggcagac      900
agcttattct ccgggtttct cttatacgtt gacacagatt acctagattccatcatcagaa      960
gatgatgaat tgtgatcagg accaagatcc ctgtggtaaa cactctgatt gaatctgggg      1020
ttccagaagg tggaacaagc aggaatggga tccaaagaga ctccactca gattctaaag      1080
catttaaaga caattctagc agaattttatc aaaacaagat gaaacacaga aaagttgaaa      1140
ccacaacaaa atgaattcta ttaaagaata gccccagata taaattctct tgaaagcaat      1200
gttcataaat atttaagcaa attaaagaca atgttaacaa attttctatt aaatgcctg      1260
agtgataaaa ccagttggca ataattatgc cttattaaat cttc      1304

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<210> 168
<211> 1147
<212> DNA
<213> Homo sapiens

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<400> 168
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cctgctgctc caggagggca gccaaaggag actctggaga tgggtgtgat ccgaggaagt      180
ggttgcggtc cttcaggagt ccatcagcct cccctggaa ataccaccag atgaagaggt      240
tgagaacatc atctggtcct ctcaaaaaag tcttgccact gtggtgccag ggaaagaggg      300
acatccagct accatcatgg tgaccaatcc aactaccag ggccaagtga gcttcctgga      360
cccagctat tccctgcata tcagcaatct gagctgggag gattagggc ttttaccag      420
ctcaagtcaa cctgagaaca tcccagatct ctaccatgca gcagtacaat ctatgtgtct      480
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gcagtatgtc cctggtgtgc tctgtggaga aggcaggcat ggatatgacc tacagctggc      600
tctcccgggg ggatagcact tatacattcc atgaaggccc tgtcctcagc acatcctgga      660
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gttcttgccc catccctgat gggcccttct atgcagatcc taactatgct tctgagaagc      780
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tggccatggg actctgggtc atccgagtcc agaaaagaca caaatgcc aaggatgaag      900
aactcatgag aaacagaatg aaattgagga aggaggcaaa gcctggctcc agccctgcct      960
gactgtcctt tgggaacccc agtcctgagc ttggtttctt cccagcacc agagaatcct      1020
tcctcagctc tcttctttcc aggggaagga ggtgctcagg ggtgggtatc cagagagcca      1080
tacttctgag ggaagactgg ctggcaataa agtcaaatta agtgaccacc aaaaaaaaaa      1140
aaaaaaa      1147

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<210> 169
<211> 563

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<212> DNA
 <213> Homo sapiens

<400> 169
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 acctcttcaa cgacctgatt gcttgtgctg tccttgtggg agccgtgggc tttgctgtga 120
 gaagtcggcg atccatgaat ctccactact tacttgtctg gatccttatt ggtgcggctg 180
 gagtttttgc ttttatcgat gtgtgtcttc aaagaaacca cttcagaggc aagaaggcca 240
 aaaagcatat gctggttcct cctccaggaa aggaaaaagg accccagcag ggcaaggac 300
 cagaaccgc caagccacca gaacctggca agccaccagg gccagcaaag ggaaagaaat 360
 gacttggagg aggtcctctg tgtctgaaac ggagtgtat tttacagcaa tatgtttcca 420
 ctctcttcct tgtcttcttt ctggaatggg tttcttttcc attttcatta ccacctttgc 480
 ttggaaaaga atggattaat ggattctaaa agcctaaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aaaaaaaaaa aaa 63

<210> 170
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (407)..(409)
 <223> n equals a,t,g, or c

<400> 170
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 actttgactg tgctgctgct cttatcccag ctgactccag gtggcaccca aagatgctgg 120
 aatctttatg gcaaatgccg ttacagatgc tccaagaagg aaagagtcta tgtttactgc 180
 ataaataata aaatgtgctg cgtgaagccc aagtaccagc caaaagaaag gtgggtggcca 240
 ttttaactgc tttgaagcct gaagccatga aaatgcagat gaagctccca gtggattccc 300
 aactccatc aataaacacc tctggctgaa aaaaaaaaaa aaaaaaaaaa araaaaaaaa 360
 aagaaaaaaa actcaagggg gggcccggta cccattcgcc ctatgtnnnt cgt 413

<210> 171
 <211> 1075
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (79)..(79)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (604)..(604)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (656)..(656)
 <223> n equals a,t,g, or c

<400> 171
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 acggccgtcg gggccgagna accatgagcc ccaggggcac gggctgctcc gccgggctgc 120

tgatgactgt	cggtctggctg	cttctggcgg	gcctccagtc	cgcgcgcggg	accaacgtca	180
ccgctgccgt	ccaggatgcc	ggcctggccc	acgaaggcga	ggcgaggag	gagaccgaaa	240
acaacgacag	cgagaccgg	gagaactacg	ctccgcctga	aaccgaggat	gtttcaaata	300
ggaatgtcgt	caaagaagta	gaattcggaa	tgtgcaccgt	tacatgtggt	attggtgtta	360
gagaagttat	attaacaaat	ggatgccctg	gtggtgaatm	caagtgtgtt	gtacgggtar	420
aagaatgccg	tggaccaaca	gattgtggct	ggggtaaacc	aatttcaga	agtcttgaaa	480
gtgttagatt	ggcatgtatt	cacacatctc	ccttaatcgt	ttcaatatat	gtggaactty	540
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gaangtcacc	ccttgctttc	gagtgtgaca	cactggataa	taatgaaata	gtagnacta	660
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cctctacacc	tgaggtagaa	tccgagcaga	gttctgtgag	ataaaagat	tcaacttctc	900
ttgaccaatt	accaacagaa	atgcctgggtg	aagatgatgc	tttaagtga	tggaatgaat	960
gatgtttgaa	tgatatataa	caaaccaaaag	gatattacag	aatattagat	tcattattac	1020
aaaaataaaa	tacacattga	aatactttta	aaaaaaaaaa	aaaaaaaaaa	ctcga	1075

<210> 172
 <211> 1113
 <212> DNA
 <213> Homo sapiens

<400> 172						
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atgcctcccc	cgcggtgtt	caagagcttt	ctgagcctgc	tctccaggg	gctgagcgtg	180
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ctgtacctgg	tctctccttt	ggagaatgaa	cctaaaggaga	tgctgactct	aagtgagtac	360
cacgagcgcg	tgcgctccca	ggggcagcag	ctgcagcagc	tccaggccga	gctggataaa	420
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aactggggcc	acccccgttt	cacgtgcttg	tatcgagtcc	gtgcccacgg	tgtgcgaacc	1020
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<210> 173
 <211> 738
 <212> DNA
 <213> Homo sapiens

<400> 173						
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cctgcccaca	gctccagccc	tgagacgacg	aggaggagag	tcgactttgc	ctcttgccca	180
agggaccatg	cccagggtgcc	ggtggctctc	ctgatcctc	ctcaccattc	ccctggccct	240
ggtggccagg	aaagacccaa	aaaagaatga	gacgggggtg	ctgaggaaat	taaaacccgt	300
caatgcctca	aatgccaacg	tgaagcagtg	tctgtggttt	gccatgcaag	aatacaacaa	360
agagagcgag	gacaagtatg	tcttccttgt	ggtcaagaca	ctgcaagccc	agcttcagg	420
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aaaaaaaaaa	aaaaaaaaa					738

<210> 174
 <211> 752
 <212> DNA
 <213> Homo sapiens

<400> 174						
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gaagaagaag	aagaaacacc	ttttgaagaa	cagagagcag	tctctgtcat	accaggrgta	180
cctgtcacat	acttgtagaa	caaaaadaag	taacatttta	attattgaaa	caatgtaaca	240
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<210> 175
 <211> 1748
 <212> DNA
 <213> Homo sapiens

<400> 175						
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tcttatTTTT	gaactcctaa	actttctggt	agaaatcttc	agttgaaaat	atcctggcaa	180
gtaaaattag	aaactcccag	aaatgtactt	atttctatta	tgttgTTTTa	tttctgaaca	240
ttgtgcccac	cattcttttc	cacatacttg	cccaaattgg	aaaactagg	ttctaagttt	300
ccccctccat	ccatgcccac	atttaattca	ccctaataat	acctgacatc	tttcaagttc	360
attttctact	atctatcccc	acgcaggcca	tatctgggtt	gaagcttcatt	atctctata	420
gattaaaaac	aaaaacaaaa	tgcatacaag	caaaacaaat	aacatacaaa	caaaaccac	480
ctaactcatc	tttatgtagt	cagtcctccc	tcaatagttt	ggccaaactt	cctaaaccga	540
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cattaaccgt	tcttgttatc	caagacagtt	tgtcatctgt	cttggtatac	aagttgcaga	660
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tccacatgcc	tcattgcattg	gtaatttttt	taacctttgc	tagaaatgtt	ctgctccact	780
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tatggctgac	tatcaaaaaa	gacaggctgg	aactcttagg	cacaggcaga	agttgcagtt	1140
cacagggtgaa	atttgttctt	tatcctggaa	gcctgggctc	tgctcttttag	atttagcagc	1200
tgactgaatc	aagtcacact	agattaccta	ggataatctt	gtttacgatt	atgattatca	1260
ctaccagtta	tcaactgatt	ttgaacttca	ttcacatcta	caaaatacct	tcataggaac	1320
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aattgagaaa	agggaagcgg	gctgactttt	catttttagaa	tttattatgc	attaacttaa	1500

agtaagtaat	aattatgtag	gtgatcattt	tgatatatta	acctacttaa	tttagaaaat	1560
catttaaaat	catttttggt	aagactacaa	aatgattttg	ggtaaaaaaa	aattttacca	1620
aatatcaaga	tcacaataat	cacttaaaat	agtcacatat	gtaactaacc	tgacacaatgt	1680
gtacatgtac	cctaaaactt	aaagtataat	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1740
aaaaaaaaa						1748

<210> 176
 <211> 813
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<400> 176						
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gaccaccaa	gactcagcct	ttcacatcat	gtccacgag	agcccaggca	tcgagtggct	180
ctgtctggag	aatgccccat	gctatgacaa	tgttcccaa	ggcatctttg	cccctgaatt	240
cttcttcaag	gtgttggtga	gcaatagagg	agtggacacg	agcacctact	gcaactacca	300
gctcaccttc	ctgctgcaca	tccacgggct	gccactcagt	cccaagcggg	cccttttcat	360
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cctgtggccc	ctcgtggtga	agggctgcac	gatgatccgg	tggaagataa	acaacctcat	480
tgccctcagaa	tcctactaca	cctacgcctc	catttcggga	atctcgagca	tgccatctct	540
gagacattcc	aggatgggct	ccatgtttag	ctccaggatg	acagaggaca	gggctgaacc	600
caaggaagcc	gtggagagac	agttgatgac	ctgagtgtcc	cacctgcccc	agcccccagt	660
tactgtcacg	cctctcttat	gaggcccatc	ttgaagatgc	aacctgtcac	ccagcccagg	720
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caggaccaa	aaaaaaaaaa	aaaaaaactc	gag			813

<210> 177
 <211> 848
 <212> DNA
 <213> Homo sapiens

<400> 177						
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actgggtccc	tggggggtgga	tattgcttat	attagactta	gaatagcata	ctgttttaat	180
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ggtcaagaat	ttagacttca	gagtcaaata	aacctatata	agtcctagtc	ctacagttt	300
ctaattgtga	gatgtcaagc	aagtttttga	actcctctaa	gcctctgttt	tcttatctat	360
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gttattttgta	actgtgagac	tggttttttg	gtatggtttt	cacatttggtg	agtagaaata	480
ccacttccta	aagtctgttt	tactcaaat	tctctatcca	ggcatagtgt	aaagtgaaat	540
acctagattt	cttgattaat	atacagataa	tgccagacg	ccatggctaa	aacctgtgac	600
gctagcactt	cgggaaggctg	aggcgggcgg	atcacttgag	gtcaggagtt	ggagaccagc	660
ctggcacaaca	tgccgaaacc	ctgtctctac	taaaaatata	aaaattagct	ggagtgggtg	720
gcagggtgtct	gtaatcccag	ctacttagga	ggctgagaca	ggagaactcc	ttgagaattg	780
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aaaaaaaaa						848

<210> 178
 <211> 1650
 <212> DNA

<213> Homo sapiens

<400> 178

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ctgtgaatga	gttcattctc	cttaacctgc	taaaggtgaa	ggatgcagga	ggtccatga	180
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acctagagca	gagcaaggag	agacagaatt	ctgtgtacca	gtcggacctc	tttgccatga	300
ttggcaccct	cttcctgtgg	atgtactggc	ccagcttcaa	ctcagccata	tcctaccatg	360
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cctcgggtggc	aatatccagt	gccctgcaaa	gaagggcaag	ctggacatgg	tgacatcca	480
gaatgccacg	ctcgcaggag	gggtggccgt	gggtaccgct	gctgagatga	tgctcatgcc	540
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cgtggcagcc	tccaggaata	aacattcttg	ttgtcctttg	taaaatgggtg	tgaatgctcc	1560
aatggggcca	gtttgaggga	gaaaaggacc	caagagacct	gcttctgccc	cagcccttac	1620
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<210> 179

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (565)..(565)

<223> n equals a,t,g, or c

<400> 179

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ggcccgatcc	gcaactggcg	tgctgctgct	gctgccagtc	ctgctcctgc	cgggtgcagag	180
ycgctcagag	cccagagacca	ccgcgcccac	cctacccca	atcccgggtg	gcaactcgtc	240
aktgagcagg	cccctgcccc	gcatcgagct	ccacgcctgc	ggcccatacc	ccaaaccagg	300
cctgctcatc	ctgctggccc	cgtggtccct	gtggccatt	ctcctgtagg	gacgccagc	360
cagccacctc	taagtccggc	ctgggactgg	cctgccccat	tgagcaacag	agacgcttga	420
cagccgcccc	cctccattcc	ttgacttacc	ccagaaatgg	gtccagaaaa	ctgaatccca	480
ccagcactgg	tttgagcaaa	ccggacaccg	aggtttcacc	tccagggrtt	ccatggaaga	540
gcctcaatgg	agatgccaca	tcctnactga	gttaaagatg	ggctgaggaa	cttgggtacc	600
cacaagtytg	ccttggggrat	caaaaagaaa	tatttacctt	tagtttggtt	cattaaatg	660
atgaagtcaa	aatatgaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaactc	ga	712

<210> 180

<211> 1074
 <212> DNA
 <213> Homo sapiens

<400> 180
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 tagctggact gctgggcagg ggagctgtcc tagataaaat tggaaagaaa cagtgaacca 180
 gagacaggtg gacaaagaat tcggggactg atgggaactg agcttgggat ccagactgaa 240
 actgattcca gactgacctc tagcaccag gaccagaca cagggccatg ggacccac 300
 atttgagact tgtgcagctg ttctgccttc taggggccat ctccactctg cctcgggctg 360
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 ggaagtggct tctgatgagg aacatgggtg gtaagctgca agagggctgc gaggagacgc 480
 tagtgttcat tgagacaggg atgcaaggg gaggttgtgg ctttaaaggc tgcagctcgt 540
 cttcgtctta ccctgcgcaa atctcctacc ttgtttcccc acccgagtg tccattgcct 600
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 tggctgcttc tacgtgttac agttccacct taaaatttca ggcaggggtt ctcaatacca 840
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 ttgggagcat caaagtgact gaggtcctca acatcttaga gaagtctcag attgttgggtg 960
 cagcatcctc caggcaagat cctgcttggg gtgtcgtctt aggcctcctg tttgccttca 1020
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<210> 181
 <211> 978
 <212> DNA
 <213> Homo sapiens

<400> 181
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 tagctgggac cacaggatca caacaccacg tctgggtaat tttttttttt tttttttttt 180
 tttttttttt gtagagatgg ggtttcgtca tgttggccag gctgggtctca aactcctggc 240
 ctcaagcaat cttccagcct tggcctccca aagtgtctggg attacaggtg tgagccacca 300
 cktctggctt ggagggctta ttaaaacmcc gattccttagc ctacccccca gaggttcttg 360
 ttagtaggtc ttggcagggc tggagaattk gaatttccac accttcttg gtgatgtgtt 420
 gttggtagtt caggggagtac atgtgagagg aaccgttttag atagkaaaaa ctgcaaacct 480
 gaagaagaat agaagaatcc ttattctgkg ctctcttaga tttagtttcc tcatctatga 540
 tcaataacta ttcatttctt cctcatttcc aataacgatt tgctgctttt aagagcaaga 600
 gatcactttt ctttcatggt gttttgctag tggcaaatca gaaatgggtt cgccagtatt 660
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 tgctgttcta gccactaaga tagagcaggt aataacatag ggccattgtc cttatggaat 900
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 aaaaaaaaaa aaactcga 978

<210> 182
 <211> 1466
 <212> DNA
 <213> Homo sapiens

<400> 182
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 ttgccccaaa agatgatgct cacttatctt tcatccagtgttaaggatatc tggaaagaca 180

acagaaagta	tagctgtttt	catttcaaaa	gtgatcagct	gcttgagcta	gcaagcaagg	240
cttgcactag	cttccaggcg	cagtcacgca	gtttcacagc	aggcgcgggt	ccctcggagc	300
acccagagct	gccctgcggg	agtcagcagt	tgtgctgtgg	ctgcactgcc	aggctgggtg	360
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tctgagtagt	tctggcccca	ctgctggagt	atctgccay	tcagtttgtg	agatggcagg	660
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taaaaaaaaa	aaaaaaaaaa	ctcgta				1466

<210> 183
 <211> 946
 <212> DNA
 <213> Homo sapiens

<400> 183						
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tcactctcaa	ggctgagatg	ttgccgggtg	tcccatgaga	gcctgcccac	gggtcagggt	180
gccccctttac	cttctgctgg	atggacatct	ggctgtgagc	caggctgggg	tcatggccgg	240
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ctcttgccaa	cagccggggg	tgggagtctg	ggtctcgctc	aggccagagc	ttctcaacct	360
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cggggagagg	tctggggctt	tggtcacatt	ctccaagggc	tgctgggctt	cggagagtc	480
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<210> 184
 <211> 1949
 <212> DNA
 <213> Homo sapiens

<400> 184						
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atgtgttcta	ttctctatct	tcatttcctat	tgtgaccttc	acaccgactc	aaaaccttcc	240
ttttagatac	ttctggatat	aaaaatatat	gttaattttg	gggtttca	ctcctgagtg	300

aaaggcagtg	tcatcaagta	cgtgaatgcc	cagctcctaa	atgtctttct	cggttctcctc	360
ccacccagtc	acgtcctcca	ggcagtgacc	ttcctttatt	tcacattccg	cttacttccct	420
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ggactttaat	gaaaaaaaaa	aaaaaaaaaa				1949

<210> 185
 <211> 1374
 <212> DNA
 <213> Homo sapiens

<400> 185						
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ttcagcctgg	ccagccctct	ggaccccgag	gttggaacct	actgtgacac	acctaccatg	180
cggacactct	tcaacctcct	ctggcttgcc	ctggcctgca	gccctgttca	cactaccctg	240
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1374

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 <211> 3059
 <212> DNA
 <213> Homo sapiens

<400> 186
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aaagatgata tataactact cagtgtgggt tgtcccacaa atgcagagtt gggttaatat 3000
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<210> 187
<211> 1134
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(1)
<223> n equals a,t,g, or c

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<220>
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<222> (1134)..(1134)
<223> n equals a,t,g, or c

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<210> 188
<211> 1583
<212> DNA
<213> Homo sapiens

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<400> 188
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<210> 189
 <211> 1991
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (300)..(300)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n equals a,t,g, or c

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gattttcttat	ttagagaaga
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cggggagtg	gcccgcacaca
gcaatgccgg	gtctaccgtg
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cagccatgaa	aacatcatct
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cctyccacct	tttaattata
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attagagaat	gaagcgaatga
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agactggggc	cgaggaaatg
tcagcagaga	caaaagagac
actgcagcta	acttgcagac
ccctaagcct	ttaccacagg
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tctgacactg	aggtcataaa
gttgatgagc	atttaagaat
agaaaaagaa	tcttgaag
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<210> 190
 <211> 1209
 <212> DNA
 <213> Homo sapiens

<400> 190						
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<210> 191
 <211> 853
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n equals a,t,g, or c

<400> 191						
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<210> 192

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 192

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<210> 193

<211> 2733

<212> DNA

<213> Homo sapiens

<400> 193

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<221> misc_feature

<222> (19)..(19)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (22)..(22)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (81)..(81)

<223> n equals a,t,g, or c

<400> 201

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<210> 202

<211> 4386

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3477)..(3477)

<223> n equals a,t,g, or c

<400> 202

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<210> 203
 <211> 1635
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (85)..(85)
 <223> n equals a,t,g, or c

<400> 203						
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<210> 204
 <211> 1835
 <212> DNA
 <213> Homo sapiens

<400> 204						
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<210> 205

<211> 2441

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2408)..(2409)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2435)..(2435)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2438)..(2438)

<223> n equals a,t,g, or c

<400> 205

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<210> 206
 <211> 718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n equals a,t,g, or c

<400> 206						
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<210> 207

<211> 1380
 <212> DNA
 <213> Homo sapiens

<400> 207

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 <212> DNA
 <213> Homo sapiens

<400> 208

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<210> 209
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 <212> DNA
 <213> Homo sapiens

<400> 209

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 <211> 526
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<220>
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 <222> (283)..(283)
 <223> n equals a,t,g, or c

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<210> 211
 <211> 571
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (494)..(494)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (562)..(562)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (566)..(566)
 <223> n equals a,t,g, or c

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<210> 212
 <211> 2078
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1177)..(1177)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (2057)..(2057)
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cyctgcatca	caaacacgac
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 <211> 2190
 <212> DNA
 <213> Homo sapiens

<400> 213						
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<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

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<222> (2493)..(2493)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (2523)..(2523)

<223> n equals a,t,g, or c

<400> 214

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caatattgcc	acaacaatgt	gcagaaacct	ttttgataat	aaaaaattgt	tctttgctc	4800
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<210> 215
 <211> 1931
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1212)..(1212)

<223> n equals a,t,g, or c

<400> 215

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cccttcgatg	agctgcgacc	tctcacctgt	gacgggcacg	acacctgggg	cagtttttct	300
ctgactctaa	ttgatgcact	ggacaccttg	ctgatttttg	ggaatgtctc	agaattccaa	360
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actcctcata	accactggat	aatTTTTTTT	TTTTTATTTT	TTTgaggcta	aactataata	1860
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<210> 216

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (508)..(508)

<223> n equals a,t,g, or c

<400> 216

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tattgatata	atttcacctc	taaaatgat	ttgaagaaat	gcaactttat	atcaaaaaat	180
gtcatctgat	ttcctttgtt	tcttttttaa	attatgtaat	cagatgattt	tatgtttttt	240
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atgtttcttt	tttgtgttca	gtgtttcaaa	tacaatttgt	atttaaggat	tttaaaatc	360
caaactgtaa	ctgagtacag	tggatcgttt	tctgttagga	tgtaaatatt	atacaatgaa	420
atctataaag	tggtgtcaat	ttgattattg	acacatataa	catgtttaca	aataaactgt	480
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<210> 217
 <211> 716
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (630)..(630)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (710)..(710)
 <223> n equals a,t,g, or c

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ggaccgaagt gcgacggtca gtagttcagt gcccatgcct gctggaggga aaggaagcca      240
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cctacaacat gcctacaatc ctgtggactg gtaccctggt ggacaggaag ccttcgacaa      360
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ctttgtgagt gtgaaggtag accgtgagga gcggcctgac gtggacaagg tgtacatgac      540
gttcgtgcag gccaccagca gcggcggggg ctggcccatg aatgtgtggc tgactcccaa      600
cctccagccc tttgtcgggg gcaactatttn cctcctgaag gatggcttga mccgagtsgg      660
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<210> 218
 <211> 2716
 <212> DNA
 <213> Homo sapiens

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<210> 219
 <211> 1257
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (549)..(549)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (589)..(589)
 <223> n equals a,t,g, or c

<400> 219						
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gcttttcgcc	cctgactggt	ttttctgttt	ctggccatgg	aggaagagaa	agatgacagc	180
ccacaggctg	acttctgcct	gggcaccgcc	ctgcactctt	ggggactgtg	gttmaccggag	240
gaagggtmac	cgtccaccat	gctgacgggg	attgcagt	gagccctcct	ggccctggcc	300
ttggttggtg	tcctcatcct	tttcatgttc	agaaggctta	gacaatttcg	acaagcacag	360
cccactcctc	agtaccggtt	ccggaagaga	gacaaagtga	tgttttacgg	ccggaagatc	420
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<210> 220
 <211> 2342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2332)..(2332)
 <223> n equals a,t,g, or c

<400> 220						
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gggggtctga	ctgggagatg	gtgggaagag	aggttgtccc	tgtcttgga	ccaggggtgg	240
gaggcctggt	aataagtagg	ccttggtttcc	atgttaggga	tccctatccc	ggggctgaa	300
ggggctcctg	tctgaattc	tcttgtgttt	ctctcaggcc	aaagcacc	tacgcagaaa	360
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cgcgtcaatg	catatttaaat	ccatgatact	gctgattgga	aggacctgaa	cctgaagttt	1080
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aggtcagttg	atttccccag	gtacattcat	gggtgtgacag	acacatgggt	acaaataaaa	2280
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cg						2342

<210> 221
 <211> 1052
 <212> DNA
 <213> Homo sapiens

<400> 221						
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gttgctgcgc	tccgtggccg	gggagcaagc	gccaggcacc	gccccctgct	cccgcggcag	180
ctcctggagc	gcggacctgg	acaagtgcac	ggactgcagc	acctcctgcc	cccttcgggc	240
tgctttggcc	catccttggg	ggcgtctctg	gcctgacctt	cgtgctgggg	ctgctttctg	300
gctttttggt	ctggagacga	tgccgcagag	agagaagttc	accaccccca	tagaggagac	360
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ggggagagtt	tggaggggag	ggtggggggg	gggaaaaaaa	aataaaaaaa	aaaattttta	960
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa			1052

<210> 222
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (936)..(936)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (946)..(946)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (951)..(951)
 <223> n equals a,t,g, or c

<400> 222						
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tgcgctccgt	ggccggggag	caagcgccag	gcaccgcccc	ctgctcccg	ggcagctcct	180
ggagcgcgga	cctggacaag	tgcattggact	gcagcacctc	ctgccccctt	ccggctgctt	240

tggcccatcc	ttggggggcgc	tctgagcctg	accttcgtgc	tggggctgct	ttctggcttt	300
ttgggtctgga	gacgatgccg	caggagagag	aagttcacca	cccccataga	ggagaccggc	360
ggagaggggt	gccagctgt	ggcgctgatc	cagtgacaat	gtgcccctg	ccagccgggg	420
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tggccctaag	atacagacc	ccccaaactc	ccaaagcggg	ggggggatat	ttattttggg	900
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1020
aaaaaaaaaa	aaaaaaa					1037

<210> 223
 <211> 1501
 <212> DNA
 <213> Homo sapiens

<400> 223						
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aaaatcaaga	acaagatctc	agcccaggag	agccgtcgta	agaagaagga	gtatgtggag	180
tgtctagaaa	agaaggtgga	gacatttaca	tctgagaaca	atgaactgtg	gaagaagggtg	240
gagaccctgg	agaatgccaa	caggaccctg	ctccagcagc	tgagaaaact	ccagactctg	300
gtcaccaaca	agatctccag	accttacaag	atggccgcca	cccagactgg	gacctgcct	360
atggtggcag	ccttgtgctt	tgttctggtg	ctgggctccc	tctgtccctg	ccttcccag	420
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gacttctccc	actccaagga	gtggttccac	gacagggatc	tgggccccaa	cacaccatc	780
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aaaaaaaaaa	aaaaagatgc	agcatcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1500
a						1501

<210> 224
 <211> 1441
 <212> DNA
 <213> Homo sapiens

<400> 224						
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cggccgggtc	ccgatgagcc	tctgtttgcc	tccgctggcg	ctgctgctgc	ttctcgcggc	120
gcttgtggcc	ccagccacag	ccgccactgc	ctaccggccg	gactggaacc	gtctgagcgg	180

cctaaccgcg	gccccggtag	agacctgcgg	gggatgacag	ctgaaccgcc	taaaggaggt	240
gagctttgaa	ggaagaggtc	cctagctctg	ttccccctga	gcctcttggg	gagtgggcaa	300
catgggtccca	atgactgggg	cggggagggg	ggaaggatcc	ctaggctgag	agtctagcct	360
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ctcctgcctt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	agggcggccg	1440
c						1441

<210> 225
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 225						
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gaagggcggt	ttcatatgcc	cggcattaag	gctttgaagt	tcttaaaacc	ccttctaggg	240
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tcttgccctg	atcctgaagc	aacaaatata	ctttaaaatg	acgttttaga	gggaaatggg	360
ggaaattgaa	tatggactgg	gaactaaatg	attgaaagta	gttttgttaa	tcttgttggg	420
ataatatatt	gtagttctgt	ttttaaaactg	ctgtcagtg	ttatggccag	agtctaaatg	480
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<210> 226
 <211> 1069
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (508)..(508)
 <223> n equals a,t,g, or c

<400> 226						
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gcctgggttat	ctgctgtaac	agaccttcca	gtgggttctg	atgccctcta	gagcaggaga	120
accactagct	tagaggttgc	agtatgtttg	gcaccttgcc	atttgtgtta	gttcagagga	180
atggctgacc	cccatgtctc	atttctaagc	ttcaggcagc	ttttctcctg	ggcagctgtc	240
attctgttga	ggggaatcct	gggactgtg	gctcctcctc	cctgtccgtg	tgctccttgat	300
ctggcagctc	acccccctca	tctccccgtg	gaggctccat	gcctagaggt	ggtcttcaaa	360
cagaagaatg	gcaaagataa	ttgtctcgtg	ttttaccctg	acccatttcc	tttaagaggg	420

tcacttcttg	gcccattcat	taaaaaccaa	tgtcatagtt	ctgtgattcc	abatcagac	480
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gagtttgagg	ctagcctggg	caggatgggtg	aaaccccgtc	tctataaga	aattttaaaa	900
attagctggg	catagtggca	cgtgcctgta	gttccatcta	ctggggaggc	tgggggtggga	960
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<210> 227
 <211> 1154
 <212> DNA
 <213> Homo sapiens

<400> 227						
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gaaactctgg	ggtgaggcct	ggttatctgc	tgtaacagac	cttccgtgg	gttctgatgc	180
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ctcctgggca	gctgtcattc	tgttgagggg	aatcctgggg	actgtggctc	ctcctccctg	360
tccgtgtgtc	cttgatcttg	cagtctaccc	ccttcattct	cccgtggagg	ctccatgcct	420
agaggtggtc	ttcaaacaga	agaatggcaa	agataattgt	ctcgtgtttt	accctgaccc	480
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tgattccacc	tatcagacag	tgccacgtcc	aaaggcgggg	ctctyacctc	cctggraaga	600
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ccttgagagc	tccctcrgtg	tcccagggct	tctggtgtgt	tcagagacct	ccacactcaa	720
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aaaaaaaaact	cgag					1154

<210> 228
 <211> 1197
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (573)..(573)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1177)..(1177)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1185)..(1185)

<223> n equals a,t,g, or c

<400> 228

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gaaactctgg	ggtgaggcct	ggttatctgc	tgtaacagac	cttccagtgg	gtgtgatgc	180
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atcgcgccac	tgcaactccag	tctgggcaac	agagcaaaac	cctgtctctt	aaaaaaaaaa	1140
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<210> 229

<211> 1347

<212> DNA

<213> Homo sapiens

<400> 229

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gaaatatgga	aaaatacatt	gatttgtgaa	aaatatattt	aaattagtag	aaaatatatta	720
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<210> 230

<211> 1821

<212> DNA

<213> Homo sapiens

<400> 230

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tcatacaattt	ttctgacttt	ttaaatcatt	atcattatta	tttttaatta	aaaaaatgcc	1740
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aaaaaaactc	gagggggggg	c				1821

<210> 231

<211> 1094

<212> DNA

<213> Homo sapiens

<400> 231

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tgtctgggat	gctgtcgccc	tccagccggg	gagctctcat	gaccacagcc	tgcttcctct	180
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gccatcgggtg	gaagaaagga	gccttctgta	cggcaactct	gtaccctggg	gtgggtttttg	300
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aaaaaaaaaa aaaa	1094

<210> 232
 <211> 549
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (496)..(496)
 <223> n equals a,t,g, or c

<400> 232	
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ccgcccggcgt ggaccgcgca cggcctctag gtctcctcgc caggacagca acctctcccc	180
tggccctcat gggcaccgtc agctccaggc ggtcctgggtg gccgctgcca ctgctgctgc	240
tgctgctgct gctcctgggt cccgcggggcg cccgtgcgca ggaggacgag gacggcgact	300
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acggaaccac agccaccttc caccgctgcg ccaaggatcc gtggaggttg cctggcacct	420
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tcttcctgg	549

<210> 233
 <211> 1120
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1020)..(1020)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1084)..(1084)
 <223> n equals a,t,g, or c

<400> 233

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ccacagacag	gccagcaagt	gtgacagtca	tggaccaccc	tggcaggggt	ggtcagcggn	1020
cgggatgccg	gcgtggccaa	gggtgccagc	atgcgcagcc	tgcgcggtgt	ttcccaaaaa	1080
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<210> 234
 <211> 1893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1853)..(1853)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1871)..(1871)
 <223> n equals a,t,g, or c

<400> 234						
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aaaacaggtc	tagaaaagtt	ggctgtaaaa	aggcaacaga	gaggacagac	ccaaaagata	180
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caatggcgta	gacaccctca	cccccaaaaag	cgttgtgggc	ccgggagccc	aanttsaaaag	1860
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<210> 235

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (39)..(39)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (46)..(46)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1052)..(1052)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1108)..(1108)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1129)..(1129)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1138)..(1138)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1158)..(1158)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1172)..(1172)
 <223> n equals a,t,g, or c

<400> 235
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 ggcctggagt ttattcggaa aagccagctg gtccagcctg tggggccact ggtggtgctg 180
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 ccagcctcag ctcccagagt catcacagtt gggggccacca atgccagga ccagccggtg 360
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 caaccaagtg ccgtggggcca caagggaang ccaagcattc cagcctttnc ttgcttgnca 1140
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<210> 236
 <211> 1286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1149)..(1149)
 <223> n equals a,t,g, or c

<400> 236
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 cccgagaaca tcctgctgga gctgttcacg cactgccccg cccgccagct gctgctgaac 300
 tgccgcctgg tctgcagcct ctggcgggga cctcatcgac ctcagacc tctggaacg 360
 caatgcctgc gagaggcctt catcaccaag gactgggacc agcccgtggc cgactggaaa 420
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 acgaaatgtg cctcaagtcc cagctggttg accttgtagc cgaggggtac tgggaggagc 660
 tactagacac attccggccg gacatcgttg ttaaggactg gtttgctgcc agagccgact 720
 gtggctgcac ctaccaatc aaagtgcagc tggcctcgg tgactacttc gtgttggcct 780
 ccttcgagcc cccacctgtg accatccaac agtggaaaca tgccacatgg acagaggtct 840

cctacacctt	ctcagactac	ccccggggtg	tccgctacat	cctcttccag	catgggggca	900
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tcagcccca	gatgaccagg	aaccaggcct	cctccgaggc	tcagcctggg	cagaagcatg	1020
gacaggagga	ggctgccccaa	tcgccctacc	gagctgttgt	ccagattttc	tgacagctgt	1080
ccatcctgtg	tctgggtcag	ccagagggtc	ctccaggcag	gagctgagca	tgggggtggc	1140
aagtgaggnc	cctgtaccaa	gcgacttctg	ccgggttca	accctaccaa	gcttggggga	1200
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aaaaaaaaa	aaaaaaaaa	aaaaaa				1286

<210> 237
 <211> 1356
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1231)..(1231)
 <223> n equals a,t,g, or c

<400> 237						
cccacgcgtc	cgaaagaatg	ttgtggctgc	tcttttttct	ggtgactgcc	attcatgctg	60
aactctgtca	accagggtga	gaaaatgctt	ttaaagttag	acttagtatt	agaacagctc	120
tgggagataa	agcatatgcc	tgggataca	atgaagaata	cctcttcaaa	gcgatggtag	180
ctttctccat	gagaaaagtt	cccaacagag	aagcaacaga	aatttcccat	gtcctacttt	240
gcaatgtaac	ccagagggtat	cattctgggt	tgtggttaca	gacccttcaa	aaaatcacac	300
ccttctctgt	gttgagggtgc	aatcagccat	aagaatgaac	aagaaccgga	tcaacaatg	360
cttctttcta	aatgacccaaa	ctctggaatt	tttaaaaatc	ccttccacac	ttgcaccacc	420
catggaccca	tctgtgccca	tctggattat	tatatttggg	gtgatatttt	gcattcatcat	480
agttgcaatt	gcactactga	ttttatcagg	gatctggcaa	cgtagaagaa	agaacaaaaga	540
accatctgaa	gtggatgacg	ctgaagataa	gtgtgaaaac	atgatcacia	ttgaaaatgg	600
catccccctc	gatccccctg	acatgaaggg	agggcatatt	aatgatgcct	tcattgacaga	660
ggatgagagg	ctcacccttc	tctgaagggc	tgttggtctg	cttcttcaag	aaattaaaca	720
tttgtttctg	tgtgactgct	gagcatcctg	aaataccaag	agcagatcat	atatttgggt	780
tcaccattct	tcttttgtaa	taaattttga	atgtgcttga	aagtgaaaag	caatcaatta	840
taccaccaa	caccactgaa	atcataagct	attcacgact	caaaatattc	taaaatattt	900
ttctgacagt	aatgtgtata	aatgtggtca	tgtggtattt	gtagttattg	atttaagcat	960
ttttagaagt	aagatcaggc	atatgtatat	attttcacac	ttcaaagacc	taaggaaaaa	1020
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tttgacgata	acttatataca	ctctgtatat	gactaagtaa	acaaaagtga	gaagtaatta	1140
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tcacaccaac	agttgattat	atattttctg	natatcagcc	cctaataagga	caattctatt	1260
tgttgaccat	ttctacaatt	tgtaaaagtc	caatctgtgc	taacttaata	aagtaataat	1320
catccaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaa			1356

<210> 238
 <211> 628
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (50)..(50)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (55)..(55)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (543)..(543)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (594)..(594)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (617)..(617)

<223> n equals a,t,g, or c

<400> 238

aaacgtcact	tttaggtgac	actatagaag	gtacgcctgc	aggtaccggn	tccgnaattc	60
ccgggtcgac	ccacgcgtcc	gcacgtcagg	gggcagtcac	tgctacgggg	aataactaaat	120
gatggcatga	gaagagaaaag	gggtgctgtc	caacaagagg	ttttggaagg	aggcttctgg	180
aagtgtgagc	tgggagcagg	ggtttgggga	ggcatctcca	ggagctatgt	ggttgtctcc	240
cgtgccagga	gtttgtgctg	ctgtactagc	atgagcttc	tggattgcaa	agttcccagg	300
agagggaaca	gccattgcaa	aggctctggg	gcgcctgaag	taatccagga	acagctgggt	360
acctggtgag	gggaaggtgg	agtgggtgagg	gccaggagggt	gatgcaggga	ggtgccacag	420
ggagcctgct	gggmccctgtg	gctgaggcgg	ggctttggct	tttgactga	gagaagtggg	480
agaggacttg	actcgggttc	ccatgctccc	cctggtggcc	atgtggtgam	cagatggtgg	540
cangtkagtg	agaactccag	tccaggacag	tggtgaccat	gcaggggatca	ggangcaagc	600
ggtggttga	tttgganggc	ttcctgaa				628

<210> 239

<211> 1932

<212> DNA

<213> Homo sapiens

<400> 239

aatTTTTTTT	TTTTTTTTT	TTTTTTTgaa	aaaaaaaaatg	ggtagtgtat	atTTTgcagg	60
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ttaggcacca	taatcagtat	gagccaacaa	tattTaaact	tgattcaggc	cacattcaga	180
catttgctct	tatatacaaa	tattTaaatt	aaatacaatc	tgaaatgtgt	tctgttacat	240
acaaaaaagg	aaaaactata	caacgcagag	cagtgtgtgt	gtttTaaata	attacattta	300
catgtaagct	aaatggaacc	agcaatgggtg	ctcaagTTTT	tatcatccct	tccagaaaaat	360
ctTTTTtctac	catctcttct	atTTTTggcc	tggctTTTgct	ggaacatgggt	ttgtggttct	420
ccagTTTcat	gtccttatta	gggaaggcat	ttgagttagag	gataggactc	cctgagtgtc	480
ctccacatcg	gcttgtgact	ttgctgttga	agacttgact	gagcacattg	aagaacggca	540
ggagctgctc	catactgcgc	acggtgcaga	tggtgagcag	caagtgccct	ggctccac	600
ccaatgttct	ccctgagttg	tcttcctctg	gattTTTTctg	cagaaaacaa	aaagtgaact	660
ggtattaata	caacagacaa	tgtgggtatgt	tagaaaaatt	aaaaatatat	aaactTTTggc	720
aattgggtcaa	gaaatgaata	caaatagacat	taagTTTcta	actcctgacc	tgatcaaaac	780
ccttgggtgct	tctgagacct	tttactgcca	tttatttagtt	ttacatggag	cagtctaaca	840
ttgtagtaat	agttcccaac	tagaatgcgc	agataagctt	agttaacaga	aatagtTTtg	900
aacaggaata	gagtcaaaca	taaaagTTTT	atgTTgtgct	ttgtattttac	tcaaaaagct	960
cccaggTTTT	tgaacctca	ctactgtaac	caaggactag	gtcacaaaat	actacagaa	1020
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cttctgggtt	gtgctaaaca	acatagggag	gaaagctgga	cctggagtca	aaggaattga	1260

gtagtggtgc	tggtctgtgc	atacttacgg	cacccttggg	caggatatac	aaaggttcct	1320
cacttataaa	atgggacagt	ctaaaactac	cttttagtag	agaagtcaaa	tgagaaggta	1380
tgtgaaaact	ctgtcaacta	aataataaga	ctaataattt	gggtataag	aggctagttt	1440
gagaagccac	ctgaattaca	caaacacagc	tacagacatc	attctgtcta	gagaaagata	1500
agagagaaca	ggttggttga	acttgggcag	aatcacagat	acaattccac	actaaagaat	1560
gaaaataagc	aatgaactag	acagaaggaa	gaaatcatga	agacttagga	agcagaatta	1620
caatctgtca	tattaacaaa	tggagtttgc	cttctaagat	cagatgttgc	tcagaaactt	1680
tcattgttta	cctaataatt	taatatcact	agtttcctag	tgggtcaagc	agatgcaaaa	1740
tccagcttat	tttcttctat	gtgctctcaa	gcttattgct	tattttaaag	taaaatcctg	1800
aaaaaggaaa	atattagggt	ggtgcaaacg	taattgcggt	ttttgcattg	ttgaaatttg	1860
ccgttttata	ttggagtaca	ttcttaataa	aatgtgggta	tgttatacaa	aaaaaaaaaa	1920
aaaaaactcg	ag					1932

<210> 240
 <211> 997
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (855)..(855)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (881)..(881)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (916)..(916)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (957)..(957)
 <223> n equals a,t,g, or c

<400> 240						
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agcatctact	taattaattt	gcttacagcc	gatttcctgc	ttactctggc	attaccagtg	120
aaaattgttg	ttgacttggg	tgtggcacct	tggaagctga	agatattcca	ctgccaagta	180
acagcctgcc	tcacttatat	caatatgtat	ttatcaatta	tcttcttagc	atttgtcagc	240
attgaccgct	gtcttcagct	gacacacagc	tgcaagatct	accgaataca	agaaccggga	300
tttgccaaaa	tgatatcaac	cgttgtgtgg	ctaattggtcc	ttcttataat	ggtgccaaat	360
atgatgattc	ccatcaaaga	catcaggaa	aagtcaaagt	tgggttggtat	ggagttttaa	420
aaggaaattt	gaagaaattg	gcatttgctg	acaaatttca	tatgtgtagc	aatattttta	480
aattttctcag	ccatcatttt	aatatccaat	tgcttgttaa	ttcgacagct	ctacagaaac	540
aaagataatg	aaaattaccc	aaatgtgaaa	aaggctctca	tcaacatact	tttatggacc	600
acgggctaca	tcatactgct	tgttccctac	cacattgtcc	gaatcccgtg	taccctcagc	660
cagacagaag	tcataactga	ttgctcaacc	aggatttcac	tcttcaaagc	caaagaggct	720
acactgctcc	tggtctgtgc	gaacctgtgc	tttgatccta	tcctgtacta	tcacctctca	780
aaagcattcc	gctcaaaggt	cactgagact	tttgccctcmc	ctaaagagac	caaggtyaga	840
aagaaaaatt	aagangtgga	aataatggct	aaaagacagg	ntttttgtgg	taccaattct	900
gggcttttat	ggaccntaaa	gttattatag	cttggaaggt	aaaaaaaaaa	aaaggngggg	960
cgctctagag	gttccccgag	gggccagctt	agggtgc			997

<210> 241
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (422)..(423)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n equals a,t,g, or c

<400> 241
 gaattcggca cgagggcggc accaggggagc ctggggcgccc ggggctccgc cgcgacccca 60
 tcgggtagac cacagaagct ccgggaccct tccggcacct ctggacagcc caggatgctg 120
 ttggccaccc tcctcctcct cctccttgga ggcgctcttg ccatccaga ccggattatt 180
 tttccaaatc atgcttgtga ggacccccca gcagtgtctt tagaagtgca gggcacctta 240
 cagaggcccc tgggtccggga cagccgcacc tcccctgcc actgcacctg gctcacaaaa 300
 agagtgcac aaatgcttct attccatagc tacggcattg ctcagtaagt tgagggtcaa 360
 aataaaggaa tcatacatct caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
 annaaanaaa aaaaaan 437

<210> 242
 <211> 1914
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1889)..(1889)
 <223> n equals a,t,g, or c

<400> 242
 gtgtgagagg cctctctgga agttgtcccg ggtgttcgcc gctggagccc gggtcgagag 60
 gacgaggtgc cgctgcctgg agaatectcc gctgccgtcg gctcccggag cccagccctt 120
 tcctaaccce acccaacct gcccagtcct agccgccagc gcctgtccct gtcacggacc 180
 ccagcgttac catgcatect gccgtcttcc tatccttacc cgacctcaga tgctcccttc 240
 tgctcctggt aacttggggt tttactcctg taacaactga aataacaagt cttgatacag 300
 agaatataga tgaaatttta aacaatgctg atgttgcttt agtaaatatt tatgtgact 360
 ggtgtcggtt cagtcagatg ttgcatccaa tttttgagga agcttccgat gtcattaagg 420
 aagaatttcc aaatgaaaat caagtagtgt ttgccagagt tgatttgtat cagcactctg 480
 acatagccca gagatacagg ataagcaaat acccaaccct caaattgttt cgtaatggga 540
 tgatgatgaa gagagaatac aggggtcagc gatcagtga agcattggca gattacatca 600
 ggcaacaaaa aagtgacccc attcaagaaa ttcgggactt agcagaaatc accactcttg 660
 atcgagcaa aagaaatatc attggatatt ttgagcaaaa ggactcggac aactatagag 720
 tttttgaacg agtagcgaat attttgcatg atgactgtgc ctttctttct gcatttggg 780
 atgtttcaaa accggaaaga tataaggcg acaacataat ctacaaacca ccagggcatt 840
 ctgctccgga tatgtgtgtac ttgggagcta tgacaaattt tgatgtgact tacaattgga 900
 ttcaagataa atgtgttctt cttgtccgag aaataacatt tgaaaatgga gaggaattga 960

cagaagaagg	actgcctttt	ctcatactct	ttcacatgaa	agaagataca	gaaagttag	1020
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tacatgccga	ttgtgacaaa	tttagacatc	ctcttctgca	catacagaaa	actccagcag	1140
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atgtattaat	tcctggaaaa	ctcaagcaat	tcgtatttga	cttacattct	ggaaaactgc	1260
acagagaatt	ccatcatgga	cctgacccaa	ctgatacagc	cccaggagag	caagcccaag	1320
atgtagcaag	cagtccacct	gagagctcct	tccagaaaact	agcaccacgt	gaatataggt	1380
atactctatt	gagggatcga	gatgagcttt	aaaaacttga	aaaacagttt	gtaagccttt	1440
caacagcagc	atcaacctac	gtggtggaaa	tagtaaacct	atattttcat	aattctatgt	1500
gtatttttat	tttgaataaa	cagaaagaaa	ttttgggttt	tttaattttt	tctccccgac	1560
tcaaaatgca	ttgtcattta	atatagtagc	ctcttaaaaa	aaaaaaaaac	ctgctaggat	1620
ttaaaaataa	aaatcagagg	cctatctcca	ctttaaatct	gtcctgtaaa	agttttataa	1680
atcaaatgaa	aggtgacatt	gccagaaaact	taccattaac	ttgcactact	agggtaggga	1740
ggacttaggg	atgtttcctg	tgtcgtatgt	gcttttcttt	ctttcatatg	atcaattctg	1800
ttgggtattt	cagtatctca	tttctcaaag	ctaaagagat	atacctctg	gatacttggg	1860
aggggaataa	attaaagtgt	tcacactgna	aaaaaaaaaa	aaaaaaaaac	tcga	1914

<210> 243
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3)..(3)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (592)..(592)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (611)..(611)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (613)..(613)
 <223> n equals a,t,g, or c

<400> 243						
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catccaagtg	agattctgaa	gttgggctgg	cgagtacacg	aatggctttc	ttactagaga	180
gaagtgggac	cctgctaata	tgtagcatgt	ggtggcatca	tggttactca	aatatcactg	240
gaacagaagg	tgaagaaga	aatctgaaga	gaaataaaac	aaattttcgg	cggttccaag	300
atggccgaat	aggaacagct	ccagtctaca	gtcoccagtg	tgagagatgc	agaagatggg	360
tgattttctgc	atttccaact	gagcaaacgg	sacaccagaa	gattatatcc	catgcctggc	420
tgggagggtc	ccatgcccac	ggagcctcgc	tattgctag	cacagcagtc	tgagatccat	480
ctgcaagggtg	ctggsgtawg	ctggsggagg	ggaccccacc	attgctgagg	cttgagtagg	540
taaacgaagc	arycaggaag	ctcgaactgg	gtggagccca	ccgcaactca	angaggcctg	600
gctacctctg	nanact					616

<210> 244
 <211> 708

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<400> 244
 tacggacacg aggnCGaaaa tgagaaaggt aacaattttcg aaaaagcatg cccttctgct 60
 gtgtttccag ttgttttagat gtctgtctctc atgtatatata tggatcacat tcgtgttaga 120
 tggaagtgtt ggaatccact gttctctcaa accggtctct ttccttgta cctatcatag 180
 tgtacatagc tcaacttcct gagtttgatt ctagtgttca aagataggta tttttcatat 240
 aagatgtcct gtcaaagcaa gtcattgaac ttacctggta tttaactgaa aacaaacaaa 300
 aatcagcaat ctcttccatt gcttgtagaa atactgactt aggccaggca cagtggctca 360
 cgtctaattc cagcactttg agaggccaag gcaggagtat catttgagcc caggagtctg 420
 agaccagcct ggcaacatag tgagaccttg tctctgtaaa aaggaaggaa ggaagggaag 480
 gagggagggg tggaGCCaga ggaggggagg ggacactctg ttatacttat cgaaagggtgc 540
 tatccagggtg tggtagtgca gccgatagtc tcagctactc aggaggctga ggtgggagga 600
 tcacttgagc tcaggagttt gaggctgcag tgagctatga tggtagcatg tactccagcc 660
 tgggcaacag agacagacca gactcctaaa aaaaaaaaaa aaaaaaaaaa 708

<210> 245
 <211> 556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (513)..(513)
 <223> n equals a,t,g, or c

<400> 245
 gaattcggca cgagaagatg ggcagccaat ggtgctcaaa ctcaaggact ggcctcctgg 60
 ggaagatttt cgagacatga tgcaaccag gtttgaagat ctgatggaga accttcctct 120
 gccagaatat accaaacgag atggcaggct caatctggcc tctaggctac ctactacttt 180
 tgtaaggcct gatctgggcc ccaagatgta caacgcctat ggtatgaggg agaggctaaa 240
 attgctcttt tgggggactg ttgttcttat ttcaactata gaaggatatc tgtgtcaat 300
 gtcaggatata gagatgattg caggcaagtg ctggagaagt gaatagtatc caagggtggtc 360
 ttgaatatgt ttgcttttgt catattggtt ttcataacat ccatgtgggc ccagaccata 420
 agcttacatg tctccagtag tgaggaagtt tctgtttaag aactctaccc aaggagccat 480
 attctcgaag gggggggcag gtaccaatt cgncctatag tggagtcgta ttacaattca 540
 ctgggccgctc cgttta 556

<210> 246
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (618)..(618)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (715)..(715)

<223> n equals a,t,g, or c

<400> 246

gtctacctcc	gggctgaaac	gtcaccatgc	ctccccacag	acagacggat	ggacagatgg	60
gcctccctgc	acctgctctg	tgggtgtggg	ggctcctgct	cagcagcagt	ttccagaccc	120
ttctccctgc	tttccccaag	ccaccgcct	tgaatctggg	gtgctctacc	agacccatcc	180
cctcatttct	aaagatttga	gccactagtc	gtgtccctct	ccctcagaaa	tgccttgggtg	240
acacttggct	gctttcaact	cttcaccca	tctgcctctt	ggctcctctt	ttaccttctg	300
ctaaaggtcc	tgacccccac	ccccgccacg	ccatggggca	cccatgggtg	gtgcgtcctt	360
gggagcagct	ctgtcccttt	ccccgtggcc	tttgccccgc	ctcctatgac	ttcgattccc	420
acctgtcccc	gacccctggg	accactgacc	gggcccgatc	accctgtcac	tgcctgtca	480
tctgcttacc	ccacacgggtg	ctctgctgac	ccaggtcttg	ctgtctccca	ayagccccac	540
gaggcttycc	gtcgtctcctg	gacactrmag	gctgagcccg	ctgccccgcc	gcctccatga	600
ggaaggcttt	tcctctgnga	gccccaggcc	accctttccc	tcctttaagt	aattacttaa	660
gtcccttgcc	agggccctcc	cagtaccctt	tctaaagaca	cccctgcccc	agcangctgc	720
aggctcctgc	tccactttcc	tctcaggccc	tcgtcgtgt	gggtgctgcct	ttga	774

<210> 247

<211> 1396

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1187)..(1187)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1325)..(1325)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1327)..(1327)

<223> n equals a,t,g, or c

<400> 247

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cacacacaca	cacacacgca	cacatgcagg	ccaggctcct	cggcangtc	accctaccgg	1200
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<210> 248
 <211> 1274
 <212> DNA
 <213> Homo sapiens

<400> 248						
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<210> 249
 <211> 652
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (392)..(392)
 <223> n equals a,t,g, or c

<400> 249						
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ctgccagctt	ctgggagctg	caggggcaga	ggcagggagc	tgtcaggcat	tcagccagca	240
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gatgtcccca	aagccagcgg	ccctttctg	tttcaccctg	tctacagaat	aaacccccag	360
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tgctgaaaca	gccctcagtt	cgtctttatt	ttgccttctg	caaaactggc	ctgggtgttg	480
cagctccttt	tgaggacttt	gctamcgggt	ctcagcatcc	ctcaattgct	ggctaggat	540
tcattgggtt	ttaggggtgg	ggtggggatta	gcattgtccag	ctgctttcca	gtttccaaag	600
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<210> 250
 <211> 1124
 <212> DNA
 <213> Homo sapiens

<400> 250
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 ggactgtgg tctggtggat aagagtggga gtcccaatcc tttctccgca gatgtgctag 180
 ctgtgcactc tgggcaagtt tctcactctc ctgagcctca gcgtctttat cabatgacg 240
 agaataaata cagcacctgc ctacctcatg ggggtgtttc agcagtcaat gagatcatgt 300
 atatgaagca tttagtatac ctacaccta ataaaagctc aacaaccagt agtcttatta 360
 ctaacaaaat ggagctagaa ggatgcatta gtttaaacaa aatcttgagg cagatactgg 420
 gagtacctgt ctttattctt caacttgagt ctctcccag tttgtttgga taaaaactca 480
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 cttatgaagt actgcagtat ctgaatacct tttgttagga taatctaag tttccaaaaa 660
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 agaaatcccc tccactccac ccactggctg tatagccttg cccaaatcac tgaatctctg 780
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<210> 251
 <211> 3095
 <212> DNA
 <213> Homo sapiens

<400> 251
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 ttgcacggag atatattaag cccttgcaact aaaaatgctg gtactgttta aattcctccc 180
 gttgacttca agtgggcgtc ttttatccgt aacattgtat caccgggtgc accaccagac 240
 gtttttcgca ggagcgaagt cattctctcc ggctctaca ctaacttgt atatttgctc 300
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 gagcatagag tgaaaaaata gctgtgattg ttcttatgta aaaatcaaag ctccaatgga 420
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 tttaaactgc tgctattaaa aacacaccca tgttattagg tttacggaag ttgagctgtc 540
 gttcaagttc ttggcgtccg gaaagggtgc cgtgccatgg gcttgtagcc cgtcctgga 600
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<210> 252

<211> 518

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (388)..(388)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (414)..(414)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (458)..(458)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (501)..(501)

<223> n equals a,t,g, or c

<400> 252

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gaattggaga	gggaggcacc	atgaagactc	tcctgctgct	ggtggggctg	ctgctgac	120
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gggagaatgg	acgggttctg	ggagaccaga	tggtctcaga	cactgagctc	caggaaatgt	180
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<210> 253
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (388)..(388)
 <223> n equals a,t,g, or c

<220>
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 <222> (414)..(414)
 <223> n equals a,t,g, or c

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 <222> (458)..(458)
 <223> n equals a,t,g, or c

<220>
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 <222> (501)..(501)
 <223> n equals a,t,g, or c

<400> 253						
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<210> 254
 <211> 1670
 <212> DNA
 <213> Homo sapiens

<400> 254						
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<210> 255

<211> 606

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (591)..(591)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (593)..(593)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (600)..(601)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (605)..(605)

<223> n equals a,t,g, or c

<400> 255

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nctana 606

<210> 256
<211> 841
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (29)..(29)
<223> n equals a,t,g, or c

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<222> (34)..(34)
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<220>
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<222> (57)..(57)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (101)..(101)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (703)..(703)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (779)..(779)
<223> n equals a,t,g, or c

<400> 256
cttagtacgc caaaggaach ctgaatcana agcntggacc tcaccgtcgt gacctgnaga 60
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cgtccagctt gcttcagcag gaagacgtgt tgaacatctt ctccctggtag gacccagca 180
gctcgtcgta caagcttggg gaacttctct gcaatctgga ggaattatt aagttcctgt 240
cgcagctgga cctgagcggg gttgttgac gaacagtcca cagacaagat ctcccggcac 300
ttttcacact ggtccttcat cttcaggcac cctgtggagt tgtgacggat ctccctgcac 360
acggcgccgt cctggtgtc ttcttctgtg aattccattg gaaagtggg gagtctgtgc 420
aggttaacat ccatggcctg ctgagcctg tgtatcatgt cgaagaagg ctgaaacatg 480
tcgtggaaat tcaagggctg gtagccagg aaaggcatta tgttccggg aaagcggtgc 540
ttgatattga agaaaaaagg cctccgctg aatgagctga aggttgaga gtgsaaagg 600
tcctgggcct cacgggtgaa gaatctgtcc tggaacagct catccatgat gctggatgcc 660
cggtcgaaac tgtcctgcat gacatccagg gcgtgggtct gcnaccggtc gttctccagc 720
agggagtcga tgcggtcgcc attaatccag aagtagaagg gagaactctg gttcagganc 780

tcctcaacct ggtggccaac cagccctgtg ctgcttctgc agactcgggc gtagaccctt	840
c	841

<210> 257
 <211> 868
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (31)..(31)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (45)..(45)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (829)..(829)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (860)..(860)
 <223> n equals a,t,g, or c

<400> 257	
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ttacttcata tccgggggaa tgtggctttg tgttcaccaa ggaggcctca cttgagatca	180
gggacatgct gctggccaat aaggtgccag ctgccgcccg tgctggtgcc atagcccat	240
gtgaggtcac tgtgccagcc cagaacactg gtctggggcc cgagaagacc tccttcttcc	300
aggctttagg catcaccact aaaatctcca gaggaaccat tgaaatcctg agtgatgtgc	360
agctgattaa gaccggagac aaagtgggag ccagtgaagc cacactgctg aacatgctga	420
acatctcccc cttctccttt gggctgatca tccagcaggt gtttgacaat ggcagcatct	480
acaaccctga agtgcttgac atcacagagg aaactctgca ttctcgcttc ctggagggtg	540
tccgcaatgt tgccagcgta tgtctgcaga taggttaccc aactgtggca tcagtgtccc	600
attctatcat caatggatac aagcgggtcc tggctttgtc tgtggagact gattacacct	660
ttccacttgc tgaaaaggtc aaggccttct tggctgatcc atctgcattt gtggctgctg	720
cccctgtggc cgctgccacc actgctgcac ctgctgctgc tgcagcccca gccaaagtgtg	780
aagcaaagga agagtcggag gaawcggatg agagkattkt camttcgana atcagcaaaa	840
gcaacaattc cagccagttn attgtgaa	868

<210> 258
 <211> 2075

<212> DNA
<213> Homo sapiens

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<400> 258
ccacgcgtcc gtggggccga ggcgcgctgg gtaggcggaa gtagccgcag atggcggcgg      60
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acccccacgc gacagcctgc gggaggaact tgatcatcacc ccgctgcctt ccggggacgt      180
agccgccaca ttccagttcc gcacgcgctg ggattcggag cttcagcggg aaggagtgtc      240
ccattacagg ctctttccca aagccctggg gcagctgac tccaagtatt ctctacggga      300
gctgcacctg tcattcacac aaggcttttg gaggaccoga tactgggggc cacccttcct      360
gcaggcccca tcagacactg accatctt tctgcgtat gctgtgctgc cgcgggaggt      420
ggtctgcacc gaaaacctca cccctggaa gaagctcttg ccctgtagtt ccaaggcagg      480
cctctctgtg ctgctgaagg cagatcgctt gttccacacc agctaccact ccaggcagt      540
gcatatccgc cctgtttgca gaaatgcacg ctgtactagc atctcctggg agctaggga      600
gaacctgtca gttgtatttg atgcttctat cacggggcag ggaaagaaag actggtccct      660
cttccggatg ttctccgaa cctcacgga gccctgcccc ctggcttcag agagccgagt      720
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gaccactaca tatcaggag tcctcctagg cactcggaag acctatgcca tctatgactt      840
gcttgacacc gccatgatca acaactctcg aaacctcaac atccagctca agtgaagag      900
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cttcccggtg ctgctgctgg acaccgtacc ctggtatctg cggtgtatg tgcacacct      1080
caccatcacc tccaagggca aggagaacaa accaagttac atccactacc agcctgcca      1140
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caaggtttcc atcagtttg agcgggcgct gctgaagtgg accgagtaca caccagatcc      1260
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ggacttcagc atgccctaca acgtgatctg cctcacgtgc actgtgggtg ccgtgtgcta      1500
cggtccttc tacaatctcc tcaccggaac ctttccacat cgaggagccc cgcacaggtg      1560
gcctggccaa gcggctggcc aaccttatcc ggcgcgcccg agtgtcccc cactctgat      1620
tcttgccctt tccagcagct gcagctgccg tttctctctg gggaggggag cccaagggct      1680
gtttctgcca cttgctctcc tcagagttgg cttttgaacc aaagtgccct ggaccaggtc      1740
agggcctaca gctgtgttgt ccagtacagg agccacgagc caaatgtggc atttgaattt      1800
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acagaaaagg cggtggcag cactggccaa ggtgatggg tgtgctacac agtgtatgtc      1980
actgtgtagt ggatggagtt tactgtttgt ggaataaaaa cggctgtttc cgtgggttaa      2040
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<210> 259
<211> 2645
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1324)..(1324)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (2645)..(2645)
<223> n equals a,t,g, or c

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<400> 259
tcgacccacg cgtccggtaa tcttcaaata tgcgcatggc gagtattatg gtctgggtga      60

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tgatcatcat	ggtgattctg	gtgctgggct	acggaatatt	tactgctac	atggagtact	120
cccgactgcg	tgggtgagcc	ggctctgatg	tctctttggg	ggacctcggc	tttcagacgg	180
atttccgggt	gtacctgcac	ttacggcaga	cctgggttggc	ctttatgatc	attctgagta	240
tccttgaagt	cattatcatc	ttgctgctca	tctttctccg	gaagagaatt	ctcatcgca	300
ttgcactcat	caaagaagcc	agcagggctg	tgggatacgt	catgtgctcc	ttgctctacc	360
cactggtcac	cttcttcttg	ctggcctct	gcacgccta	ctgggccagc	actgctgtct	420
tcctgtccac	ttccaacgaa	gcggtctata	agatctttga	tgacagcccc	tgccatttta	480
ctgcgaaaac	ctgcaaccca	gagaccttcc	cctcctccaa	tgagtcgccg	caatgcccc	540
atgcccgttg	ccagttcgcc	ttctacgggt	gtgagtcggg	ctaccacggg	gcctgctgg	600
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ccctggcctt	tggcgcgctc	atcctggcca	ttgtgcagat	catccgtgtg	atactcgagt	840
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ctctgccac	acacctcact	tgatcctttt	gccaaacttg	tcaaactcag	gggaactggc	2340
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taactgcatt	ccaaccacta	ataaagtgcc	tattgtacag	gtmaaaaaaa	aaaaaaaaaa	2580
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaagggg	2640
ggggg						2645

<210> 260

<211> 1098

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (74)..(74)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (346)..(346)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1085)..(1085)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1093)..(1093)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1095)..(1095)
 <223> n equals a,t,g, or c

<400> 260
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 gagcctcccg gacnagggtc ggggcctgcg cgatgcaaga cgggagaaaa ggaggggcgt 120
 acgcgggcaa gatggaggcg actacggctg gtgtgggccg gctagaggaa gaggcgttgc 180
 ggcgaaaagga acggctgaag gccctacggg agaaaaccggg gcgcaaggws agaagtgkgg 240
 agtgagggtc gcagttgagg cgtccagcgt tcgggggtccg ggtcgcgctt gaggagagca 300
 aagggttaat aaggaaagac agctgccgag ggcgcgcagt ccgggncgct aacgcagtgcg 360
 cgagaagacg ggcgcacctc cacgatgtct ggggctgctt ggcgtgggac tcctctggcg 420
 ctggtgcggt cgtcgcgcac gcgcgggggt gggcaargca gtggtcagcg acccgagtc 480
 catctgactc ctgcttcccg ggtgttgctc gtgtaggtat ctagggtctgc ctgtaggttc 540
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 ccccgccctt cgattctgag tcagacagac tccagagtc gccagcactc cttggacagg 660
 gcagcaagtg atagcagtgg gtatacagcc ggagtcgttt cgtgcaaaaa tcaaaaagag 720
 gccgggcacg gtggctcacg cctgtaatcc cagtgccttg ggaggccgag gcaggcggat 780
 cacttgaggt tagtagttcg agaccaggct gggtaacatg gtgaaacccc gcctctacta 800
 aaaatacaaa aattagccgg gcgtggtggt gcgcgcctgt aatcccagct tctcgggagg 900
 ctatggcagg agaaccgctt gagcctggga ggtcagaggt tgtagttagt ccgagatctc 960
 gccactgtac tccagcctgg gcaacagagc gagatccgct tcaaaaaaaa aaaaaaaggg 1020
 cggccgctct agaggattcc ctcgagggg tcaagttyac gcgtggcatg cgwmgtgcag 1080
 ctgtntgccc tgnngntgg 1098

<210> 261
 <211> 538
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (462)..(462)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (498)..(498)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (520)..(520)

<223> n equals a,t,g, or c

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<400> 261
gcttgttaggt actcattgag gtttattgtg taagatgaat gaatgttgca aattcctaaa      60
catgtgattc agatgcccaa tcttactctg ttactttatg aaaatTTTTT aaagctatat      120
gatgttatat caaaatatgt tgttatactt taggataatc ggtgtgtag ccctgaattt      180
cagcataagt cccattTTTT tccatgggag tctaggaaaag ctatatgttt attcagcagc      240
aaaatacagt ttggaactta aataaactat tgatcaattc tgggtcttatg tagaaggaa      300
taaagcatca agaaaaagaa aagattgctg tcaagaccag gaaaattgac aatagagtat      360
tagaatgcag aaatgagggg aagtggaaaar gccascaagt aggagagaaa aagtgcaggg      420
acagtagaaa gtgaatgtag gagcttctga cccagcactc angaacgcaa ttcatcccta      480
aaaagctgtt gcgtctangt tgccagtaac caattaaan ccgtttgaag tagagtga      538
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<210> 262

<211> 1346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (17)..(17)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (21)..(21)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (36)..(36)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (150)..(150)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (323)..(323)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1307)..(1307)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1337)..(1337)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1341)..(1341)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1343)..(1343)
 <223> n equals a,t,g, or c

<400> 262
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 gaatgcaggt gtgtctgtcc tgcaaccocag cttctggctc tggaaancca gctgcatcac 120
 ccatgtgcct ggaccttctc cagaccatgn aggccaggc gagtgactca ctgccattca 180
 gtctccatct ttgggcagat ccaccatgag acataacttc ccagaaatcc agttacaagg 240
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 cagcgggtcca ttcatagagc ccngctagaa tagaggtcac aagctcagaa gcttctctaa 360
 ggcaggcagg aaattttaagt cgatactatg atctgcattg tgggctggaa tgaacggaag 420
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 cactmcctty catttcaact ctctttgctt cactttcctc atcagtaaaa taaaaataat 780
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 ttcaatgcta tcaggcattt agttacatgg taaataagt tttaaaacat ttaaaacaaa 900
 agttcaaaga taataarcaa ggaaacagaa aacctgacag gccagctttg gaaccttctt 960
 gatggcagat ctatcaacat ttctcccttt ggctgggatg aaaaggcatt tgggaataaa 1020
 agatcccata aaaataaatg agaagaagtg aaacaccttc attatggcaa ttttggtgtc 1080
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 acctgggcaa ttttgaaaga aggaaagaaa atggttctcc ctgtggacaa raagaaacaa 1260
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 aggtttcagt gagggtngtg ngngaa 1346

<210> 263
 <211> 912
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (36)..(36)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (93)..(93)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (158)..(158)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (592)..(592)
 <223> n equals a,t,g, or c

<400> 263
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 gaactaagtt gatccctagg tttttgtggg agnccggggt gggggaggtcc agtggaaagc 120
 aattgctgga gagtagtcct tgttctttgc tgacaganca ggagcagagt gtggaatgaa 180
 aactcaatag cctcctctat tctcaagaga caattgactt ccatctgttt aaactcccc 240
 aggggaccct gctcccccca ttccattta ctctcctttc caccaacctt gggtagacatt 300
 aagaaaacca aaccattttg aaacacaagc tcttacacat caaaagtcag gggagaagtc 360
 tggttgacct gtaagccact gcatgaggca caaagatgca aaaaggaaact ttcaggaaca 420
 actgctgctc cgaggactd atgtcagata taacatccgc tttggcccaa aagtaggctt 480
 gagccccaga agaggaggaa tgtcmagtat gtttaaaatg tgaaaccttt agttatactt 540
 gctctttact cagaaaggag agagtattcc cttatgccaa cgaggctctt gngagttgtt 600
 tgcactattg gtagcagggt ctgcctgggg tagctcttat ggtctgtgcttgaagtgtgc 660
 accagctgct gccctggaca tgactgttgg tccctgcata caagcagcca cctttaaaca 720
 gatcaaatga ctcttatgat gacagctgtc tcaacttact ttcaaactgg ttttaatttg 780
 gttacttgca acctaagaca gcaracagca ttttagggat gaattgcgtt cctgaagtgc 840
 atgggtcaga aagctcmtac attcactttt tactgtccct gcactttttc taccctactt 900
 gctgcccttc ca 912

<210> 264
 <211> 1823
 <212> DNA
 <213> Homo sapiens

<400> 264
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 gacgtcctcc tgtgtgtcct gactgtcggg gtgttgccga gcattggttag cagagggggc 120
 tggtttggca cccaggtacc ctgcctcatc cccggggcct tggccagtct acacagagga 180
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 agtgtgaaac gtgtgttgac tcatttacta caacaacctg gcaaggcagt tcttccgtta 360
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 acagctcaaa gtgcagatcc tctgcccctc ctggcatccc agttggggg ggtcaggggt 480
 gggatctctg cagtcagtgct ctgggggctg gatgacaagc tgcagcctcc ccgcaacccc 540
 acgatttcca tagcgagtg gagccagaaa gaaacagacc attttacaga ccagagaaac 600
 aagggttgctg ctctctcaga ccctggagcc agtgacaggg aaggcggaga agggacgaga 660
 gcctccgttt attcggagcc tgtgtatacc ctccctttca caaactgtag cagcctccag 720
 aggcaggggg gatctttatg atgaccaaatt ggggaggctt agggattgga aatcacttgc 780
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 tgggtgtgcc aggccttcct gcaccctggg ttctctggcg ctgagaaata agtgcattgg 960
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gaaaagctcc	ctggaggagg	tgatgaagg	gtaccaagc	ctggaagagg	ctggcagtg	500
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tgctggttga	gacaatttcc	tccttggagt	ggcctgggtt	tttaggggta	gggggagtg	1620
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caaccttgaa	ctactaggct	cga				1823

<210> 265
 <211> 1964
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n equals a,t,g, or c

<400> 265						
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caagtgatta	cctcataagg	acaaactgag	tcacgcggtg	cgccgtctag	aactagtgga	120
tccccgkct	gyaggaattc	ggcagagtc	ttgtgccagg	cactgggata	tggtgccgaa	180
ttggatacaa	gggagatggg	acgtcctcct	gtgtgtcttg	actgtcgggtg	tggtgccgag	240
cattggtagc	agagggggct	ggtttggcac	ccaggtaccc	tgccctcatcc	ccggggcctt	300
ggccagtcta	cacagaggaa	ctgccctcca	gctgagttac	ccattttcca	tggcaggag	360
gacagcagaa	aggcctgtgt	ccatgactaa	tcatagcttc	catctattga	gcatttactg	420
ggagctgggc	actgtgctaa	gtgtgaaacg	tgtgttgact	catttactac	aacaacctgg	480
caaggcaggt	tcttccgtta	gccccgtctc	aaagctaggg	gacctggagc	acaggcggtc	540
aagtgccttg	ctcaaggcac	acagctcaga	agtgcagatc	ctctgcccct	cctggcatcc	600
cagtctgggg	gggtcagggg	tgggatctct	gcagtcagtg	cctgggggct	ggatgacaag	660
ctgcagcctc	cccgcacccc	cacgatttcc	atagcgcagt	ggagccagaa	agaaacagac	720
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acaaactgta	gcagcctcca	gaggcagggg	ggatctttat	gatgaccaa	tggggaggct	900
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gttccgtcca	gctcagagc	ttggtgcctt	tcttgctcac	cacgtgccgg	ccccagctcg	1020
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gctgagaaat	aagtgcattg	gcaaagtggc	tttgtttcca	ggtcagtgac	tgtgaccca	1140
tgtgtacaca	tctgtgcatc	tgaccgtggc	attgtaaccc	aggggattt	tctaagtgat	1200
gtgctggggg	tggtggcagg	gagtggggct	tatggagccg	acgagacacc	atcagaccat	1260
agagaggctg	cccaggcttg	ggagccatat	ggacctggat	ttgaccttga	acaggtcatt	1320
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tcccttctcg	tagaagagtg	gagtctgatg	agagagacag	ggaagtgaaa	attcacagcc	1500
cctggatgcc	agtgtgaag	gagtgggttc	aggactggga	acatcagaat	gggcatagtg	1560
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ggcactgcca	agcatgctgc	ttgggattat	gggtgtccac	agagctgcag	tttctccaaa	1860
ggtgtttttt	gtttgttttt	gagacagggt	cacactctgt	cacccaggat	ggagtgcagt	1920
ggcccgatcc	tagctcactg	caaccttgaa	ctactaggct	cga		1964

<210> 266
 <211> 769
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (483)..(483)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (667)..(667)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (697)..(697)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (708)..(708)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (723)..(723)
 <223> n equals a,t,g, or c

<400> 266
 caccgcggtg gcggccgctc tagaactagt ggatcccccg kctgyaggaa ttcggcacga 60
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 tcctgtgtgt cttgactgtc ggtgtgttgc cgagcattgg tagcagaggg ggctggtttg 180
 gcacccaggt accctgcctc atccccgggg ccttggccag tctacacaga ggaactgccc 240
 tccagctgag ttacccattt tccatggcag ggaggacagc agaaaggccg ttcccatga 300
 ctaatcatag cttccatcta ttgagcattt actgggarct gggcactgtg ctaagtgkga 360
 aacgtgtgtt gactcattta ctacaacaac ctggcaaggc aggttcttcc gttagcccct 420
 gctcaaagct aggggacctg gagcacaggc ggtcaagtgc ttggctcaag gcacacagct 480
 canaagtgca gatcctctgc ccctcctggc atcccagctt gggggggtca ggggtgggat 540
 ctctgcagtc agtgccctggg ggctggatga caaagctgca rccttcccgc amccccacga 600
 tttccatagc gcaatggagc cagaaagaaa cagaccattt tacagaccag agaaacaagg 660
 gtgctgntct cttaaaccct ggagccagtg acagggnaaa gccgganaa aggaccaaga 720
 agnctccggt taattcggag cctggggaaa cccttccttt tacaaaactg 769

<210> 267
 <211> 818
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (68)..(69)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n equals a,t,g, or c

<400> 267

ctgtgcatct	gacccgtggc	attttaaccc	caggggccat	ttttctaagt	gatgtgctgg	60
ggttgtgnnc	agggagtggg	cnttatggac	ccgacgagac	accatcagac	ccatagagag	120
gctgcccagg	cttgggagcc	atatggacct	ggatttgacc	ttgacaggt	catttcacct	180
gagtgtgtat	agtgggaatg	ataacatccg	gctcacagaa	ctgtggtgag	aattagagat	240
ggtgggtgtc	gaatgattag	cacctaatca	gcattttaca	ataatgcaaa	ttcttccctt	300
ctcgtagaag	agtggagtct	gatgagagag	acagggaagt	gaaaattcac	agccccctga	360
tgccagtgtc	gaaggagtgg	gttcaggact	gggaacatca	gaatgggcat	agtgacttat	420
tctggggaag	tcatgaaaag	ctccctggag	gaggtgatga	aggggtaccc	aagcctggaa	480
gaggctggca	gtggtactcc	agaaacttca	tggtggcctg	caatttgtga	tgcatatttt	540
tcctcactgt	gagatgctgg	ttgagacaat	ttcctccttg	gagtggcctg	gttttttagg	600
ggtaggggga	gtgcccacgt	gggtgtagtt	tctagacaga	agcagtggga	ggagggcact	660
gccaagcatg	ctgcttggga	ttatgggtgt	ccacagagct	gcagtttctc	caaaggtggt	720
ttttgtttgt	ttttgagaca	gggtcacact	ctgtcaccca	ggatggagtg	cagtggcccc	780
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<210> 268
 <211> 2052
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2045)..(2045)
 <223> n equals a,t,g, or c

<400> 268						
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ctgatcttgc	ccatgtcatg	cgcattcttgt	ctgcagaaaa	tatcccaa	ttgcctcctg	180
ggggaggtct	tgctggcaas	cgtaatgtta	ttgaagctgt	ttatagtaga	ctgaatccac	240
atagagaaa	tgatgggggt	gctggagatc	tagaagaccc	atggtagcct	taaaaacctt	300
ctaaaatgct	tttrattctg	aaaattgggg	gaaaaaactt	ttaatcaca	ttttcttcaa	360
tacaagggga	aaatattctt	gcggattccc	aacgttttgt	gatatgagca	gaaaatcatt	420
agcatttccc	atcatttgtt	catatttgg	ttttctgaca	gttgccactt	gtagcattgc	480
ctgtactaca	gtattttttg	ccaacctcag	gcatactcgt	tacatctgta	ttgaactttc	540
ggccctagaa	accagtggag	ttatttccac	acaaatcaac	aatgtgcctg	aggtgcatgg	600
gaaatatagt	tagctatact	ctgaaaatac	attatgtttt	ttttctttta	acaaaacac	660
caacatgtaa	gcatgtaaga	gtaaagaatt	gtatgatatg	ttcctttttt	cagttcacca	720
agttggaagc	cttttgcagc	tctgtggctt	ggaatttcat	ttgagcaatt	tctataggat	780
atgtatttat	tattgattgt	tatttaawtt	ttttcccaat	tttacctgta	ttaccaaact	840
gggttctcca	ataatgtcca	aattgtaatt	ttgccttgc	tcaagataaa	gtgtatttgg	900
gaataatatt	ataaaccctt	acaaatttta	tgcatgtatc	tactgcatcc	ttcaactctc	960
actagaaaat	cttttgaaac	caaatggatt	aatttatggc	tatttataat	ttgctttgac	1020
atctcactgt	tggaattttt	ttaaagatga	gatttgcctt	tataatgtaa	atgtgattt	1080
ttgtttttaca	tgtgggtttc	tatagtttta	attttttcag	cttttaagat	acgagttttg	1140
tgtaatttgg	tattttta	catttatgtt	attttaaaag	ctcagaatat	cacattgaaa	1200
ttactataaa	tacattttaa	attatctatt	ttagatctaa	ggaaatacta	cagagatatt	1260
ttcatgggtt	cagtaadttt	tcattttata	acattgggca	cggtacagag	tgattgtcac	1320
ataaggtact	tgaagattta	ttagttta	tctattttta	cagtaacctt	gaattcttct	1380
gagttttgca	tgtattaaat	tcaattaatg	ctgaacatga	agagtaaa	agttatctga	1440
aagaagtttc	tgggttagga	gaagtaatga	atgtatccat	ttgtacatg	tttacatggt	1500
gtggatgctt	tgtaaacatt	ttcctgtatg	tttaaattgt	gtttcagcag	gatgtaattg	1560
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tgtgaaaagc	tgtttgtccc	tttactgggt	ttgggggggt	gttaaaagat	aggggaatgaa	1860

gaatgcaaaa	tggtttatcg	ttcaaactgt	ccactctgat	caaccctgt	actgatagta	1920
cttcccagta	tgatattgtg	atgtttcata	caatgcagtg	aacataacca	acttggtacc	1980
taaataaaga	attgataaaa	acagtgtgac	atattaaaaa	aaaggggggc	ccggtaccca	2040
attcncccta	ta					2052

<210> 269
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 269						
gaattcggca	cgagccttga	gctagcattt	cattatgacc	gtgatttttc	cccgcaccac	60
tttccagcct	tggtgtccac	aattccactg	ggccttaagt	atgtactgaa	ctttcctgcc	120
tccctcattt	tgctctgctt	gtgcaatttt	ttccaccctc	caactctgtc	aaacgtaagc	180
cttcctgacc	tctaagacct	acctttgtca	tgtaccttta	ccctcaggca	aggagcaatc	240
tcttctcttc	ctcttctacc	ttgctgtagc	ttctcccaaa	ggatttatca	cattctgcct	300
tgaatcatag	ggaacagcat	gtgtagtgga	atgaacacag	gcctctgaat	ccaagatacg	360
agtttaaatc	ccagcttttg	aggtgggttac	ttaaagtctc	agtgccttca	ttcttctycc	420
tatataaagt	agatattaca	atatctaact	tacagagtca	ttgggagcta	tacatgcagc	480
gattgggtaa	agcacctggc	acatggcaag	cgattagcaa	atgctgggta	cttctacttc	540
tttctcttcc	cttttcccag	tctatcataa	tttctctgar	arcaggcacc	atgtcttatt	600
tacccttgta	tttcccacag	tacttcccat	agtgarcttac	ccttagtaaa	tacycagtaa	660
gttgaattga	attttaaatta	mctgtaagtc	ttaaaatgtg	ggattaaatt	aagaatatat	720
tgtcctggaa	atacccaagt	gtctattgat	ggatgaatgg	ataaacaaaa	tgtggtatac	780
acataatgga	atattattca	gccttaaaaa	ggaatgaaat	tctgacatgt	gctacaatat	840
gatgaacctg	gaagacatta	tatgtgaaat	aagccagaca	gaaaaggaca	a	891

<210> 270
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 270						
aaagtacagg	ttgacatcca	aaatctgaaa	tgagaaagc	tccaaaaact	gaaacttttt	60
caatgccgac	acgatgctca	aagaaaaatgc	taattggagc	atttcagatt	ttggattttt	120
ggattttggga	tgctcaactg	gcataatgtg	aatatcccaa	actctgaaaa	aatctgaagt	180
ctaaaacact	tctgggtctca	aggatttttg	ataaaggata	ctcaatgtgc	aacatgtaga	240
atgggtggttg	caaggtggga	ggagagaatg	gagagttact	gtttaatgat	acaatgtttc	300
cgtttgggaa	gatggaaagt	tttggagatg	tgtgatgggt	atgggtgcgc	aacaatggga	360
aggtacttag	tactgcttaa	ctgtgcacac	ttaaaaatgg	taaaaaatgat	aaatttttgt	420
tatgtcttaa	aacaataaaa	gaagtttttt	aaaaaaaaa	aaaaaaaaa	aactcgaggg	480
ggggcccgtg	cccaatcgcc	t				501

<210> 271
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 271						
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cagcccragg	aagggaccca	ataacctttc	aaaacscaaa	ctgctkcctg	cggtgagggc	180
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ctcaggggar	gcccggaggc	agtgtctcgc	acccgggaac	gtgtctcagg	ctcgggtggg	480

<212> DNA
 <213> Homo sapiens

<400> 273
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 gcaactgctg cctttgttgc ttatactgcc cggctggact ggaagcttgc tgcagaggag 120
 gctaagaaac attcaggccg gcagcagcag cagagagcag agagcactgc aaccagacct 80
 gggcctgaga aagcagtcct atcttcagt gctacaggca gttcccctgg cattaccttg 240
 acaacgtatt caaggtctga gtgccacgtg gacttcttca ggactccaga ggaggccac 300
 gccctttcag ctctaccag cagactatca gtgaaacagc tggtcacccg ccgtggggct 360
 gctctggggg cggcgtcagc aactgatgg tggggctcac ggtcaggatc ctagccacca 420
 ggactagca aagaagcttg gaaatagaaa gccaggagt gctgtcccca gtatgcaaac 480
 acaccacggt ctgccctgca aaaacaccaa tggggcttag tgcaggtgga cactttgaac 540
 cactcctcaa aaaaagaact ttggctgaty ccttgtggtg acactcagag gggctctgaa 600
 agactgaca attctgttct ggtcaagctg gagttttctt ctgtgacttg gactgctcta 660
 cagaagacat cagccaactg cacgagtcag agtccaggga ttgtcactat tattaataat 720
 gtaaattggct tcaaatggga cactgcagat aammycacia aaaccactgt tatattaaag 780
 attacacatt tcctggaaaa aaaaaaaaaa aaaactcga 819

<210> 274
 <211> 2460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2457)..(2457)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2459)..(2460)
 <223> n equals a,t,g, or c

<400> 274
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 gccagagcgg tgtccagcgc ggtgtagccg cagccgcgc tgtcaggcgc ancaacgggc 180
 aaccccgtag aagtcggtcg gcaggtcctc tccaacccgc cgctaccgc ccgctgtggg 240
 agagacccca gcaggagccc aarggcagct acggggggcg gaaggccgct ggcgcgcct 300
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 ggctgagtct ttgtatgaga tccgctttcg ggaaaacgtg gagaagagaa ttctgtgcca 660
 catgcagctc agttctgcac aggtggagca gctgcgccag gccattgaag aactgtacta 720
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 <211> 1163
 <212> DNA
 <213> Homo sapiens

<400> 275						
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aagcgaaaaa	aaaaaaaaaa	aaa				1163

<210> 276
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 <212> DNA
 <213> Homo sapiens

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<400> 276
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ccctgtcct ctcgtgtgg gcgtgtgca cagcctgccg cagcccgagg acgtgtagc      180
ccccaggaag agggcgcgga ggcagcgggc gaggctgcag ggcagtgcga cggcggcgga      240
agcgtcccta ctgaggcgga cccacctctg ctccctcag caagtccgac accagactgc      300
acgagctgca ccggggcccc cgcagcagca gggccctgcg gcctgccagy atggatctcc      360
tgcgccaca ctggctggag gtgtccaggg acatcacgg accgcaggca gccccctctg      420
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tggcctcgag gccacctatt ccaacgtggg gtggcggcc ctccccgggg tcagcctggc      540
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tcccaagag ccacagcagg ggaagactga ggtgaccccg gccgctcagg tggacgtcct      660
gtactccagg gtctgcaagc ctaaaaggag ggaccagga cccaccacag acccgctgga      720
ccccagggc caggagcgca ttctggccct ggcggtgac ctggcctacc agaccctccc      780
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ggacctgtgc tcttctctcc agagtgaggc ccgtcccccg ccccgccccg cctcacagct     1020
gacagcgcca gtcccaggtc cccgggccgc cagcccgta ggtccgtgag gtccctggccg     1080
ctctgacagc cgcggcctcc cggggctcca gagaaggccc gcgtctaaat aaagcgag      1140
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<210> 277
<211> 768
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (675)..(675)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (721)..(721)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (723)..(723)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (742)..(742)
<223> n equals a,t,g, or c

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gatttgaaag aactgatgca atttctaaag cagcctgact tcctcccagg aggttactcc      180
cacaccaagc ctctgacttc atgaccacca gatttagaaa ttgaagtatc tatgtaagaa      240

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gttgcctcct	aggcagaaat	caagaaatcc	aactataaca	taggttagag	tccatthttg	300
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tggtttttkg	tttttttttt	tttccagagg	ctcatgtaa	tcctacatca	tgkacagttt	420
cagagcaggg	ctgkgccacc	atctcagtga	ctcctggaat	actaaattgg	atctttgtag	480
aggaagaaaa	taacacagtt	ctagattttc	cctagctggt	aattagtttt	atggcataat	540
taaaatagct	caggagtaaa	aacaaagtcc	agccttaaca	ncctgttaag	tcttcttttc	600
ttatctgaaa	agaggtaaga	taatgaagtt	taaacagttg	aagaagttaa	ccgggaaagg	660
aattaacatt	tcaanggcct	tgccgctttc	ttcctcctct	tgtgatatga	accagaattg	720
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<210> 278
 <211> 2087
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (73)..(73)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (94)..(94)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1552)..(1552)
 <223> n equals a,t,g, or c

<400> 278						
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aaagtcatth	caaaactgaat	ctgacggata	agataggggc	catagctgg	aaaaataagt	720
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<210> 279

<211> 2096

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2070)..(2070)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2083)..(2083)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2090)..(2090)

<223> n equals a,t,g, or c

<400> 279

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<221> misc_feature
<222> (485)..(486)
<223> n equals a,t,g, or c
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<220>
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 <222> (493)..(493)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (496)..(496)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (587)..(587)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (633)..(633)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1330)..(1330)
 <223> n equals a,t,g, or c

<400> 281
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 aaattaaaan aaa 1333

<210> 282
 <211> 1140
 <212> DNA
 <213> Homo sapiens

<400> 282

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ctaccatcat	ggtgaccaat	ccacactacc	aggccaagt	gagcttctctg	gaccccarct	360
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ccttggaac	cccagtcctg	agcttggttt	cttccagca	cccagagaat	ccttctctcag	1020
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gaggggaagac	tggctggcaa	taaagtcaaa	ttaagtgacc	acaaaaaaaa	aaaaaaaaaa	1140

<210> 283
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<400> 283						
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gcgcgggacc	aagctcaccg	ctgccgtcca	ggatgccggc	ctggcccacg	aaggcgaggg	180
cgaggaggag	accgaaaaca	acgacagcga	gaccgcggag	aactacgctc	cgtctgaaac	240
cgaggatgtt	tcaaatagga	atstcgtcaa	agaagtagaa	ttcggaatgt	gcaccgttac	300
atgtggtatt	ggtgttagag	aagttatatt	aacaaatgga	tgccctgggtg	gtgaatccaa	360
gtgtgttgta	cgggtagaag	aatgcccgtg	gaccaacaga	ttgtggctgg	ggtaaaccac	420
tttcagaaag	tcttgaaagt	gttagattgg	catgtattca	cacatctccc	ttaaatcggt	480
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gcaatccctag	aagtacgcaa	ggaaagtcac	cccttggtct	tcgagtgtga	cacactggat	600
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cattatctgt	gtatttataa	ttttcttatt	gatcttcata	atcataaatt	gggcagcagt	780
caaggctttc	tggggggcaa	aagcctctac	acctgaggta	caatccgagc	agagttctgt	840
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tgctttaagt	gaatggaatg	aatgatgttt	gaatgatata	taacaaacca	aaggatatta	960
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aaaaaaaaaa	aaactcga					1038

<210> 284
 <211> 745
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (312)..(312)
 <223> n equals a,t,g, or c

<400> 284						
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gtggccagga	aagacccaaa	aaagaatgag	acgggggtgc	tgaggaaatt	aaaacccgtc	300
aatgccttca	antgccaacg	tggaagcagt	gtyygtggtt	ttgccatgca	agaatacaac	360
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agtgtgaaga	tgcttaatgg	tgttttgagg	catccctcca	acctcgtga	ctactttatc	660
catgaaaatg	aagcaatggt	caggtgggag	gctcttccca	atgtgctttc	ttcaaaaaaa	720
aaaaaaaaaa	aaaaaaaaaa	ctcga				745

<210> 285

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (537)..(537)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (579)..(579)

<223> n equals a,t,g, or c

<400> 285

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agagctggtc	agtgaatgtg	gttgcagcat	ggcctttggg	caagaagtaa	cccatttaac	180
taaaaccagc	tggttgggcc	cactcagatt	tatcaaaggg	ttactgggtc	cctgggggtg	240
gatattgctt	atattagact	tagaatagca	tactgtttta	atattatatg	aactaaaatg	300
tttctttaaa	aaaagagtgg	tctgttaatg	gatttatgta	gtgggtcaaga	atttagactt	360
cagagtcaaa	taaacctata	tcagtcctag	tcctacagtt	tactaattgt	gagatgkcaa	420
gcaagktttt	gaactcctct	aagcctctgk	tttcttatct	ataaattaat	aaatgaatga	480
atcgggttga	gtgaataatt	aagtaaaatc	ttaaagcata	ctagttattg	gaactgngaa	540
actgggtttt	ttgggaatgg	gtttcacatt	tgggaagtng	aaataccact	ttctaaaggt	600
ctggtttatc	tcaaattctt	atccaggcct	aa			632

<210> 286

<211> 408

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (350)..(350)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (376)..(376)

<223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (386)..(386)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (404)..(404)
 <223> n equals a,t,g, or c

<400> 286
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 caggatctgc ctcggtctgt cagacattcc taaggaaaat tgtataataa ctatttcggg 120
 aatgcagtta tctcatcatg gtcagtcttt ggggaagtgg gctgagaaat tacaatgtt 180
 ctatttctcta ttttcattcc tattgtgacc ttcacaccga ctcaaaacct tcctttttaga 240
 tacttctgga tataaaaaata tatgttaatt ttgggggttc acactcctga gtgaaaggca 300
 gtgtcatcaa gtacgtgaat gccagctcc taaatgtctt tctcgttctn ctcccaccca 360
 gtcacgtcct ccaagnagt aacttntctt aattcacaat ccgnttac 408

<210> 287
 <211> 1299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1291)..(1291)
 <223> n equals a,t,g, or c

<400> 287
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 gtggcggtga cgggcgcgga ggaggaccgg gcccgcttct ttctcgagtc ggccggctgg 120
 gacttgcaat gataatagag tgacatcctt caragacctc attcatgacc aagatgaaga 180
 tgaggaggaa gaggaaggcc agaggtttta tgctgggggc tcagagagaa gtggacagca 240
 gattgttggc cctcccagga agaaaagtcc caacgagctg gtggatgata tctttaaagg 300
 tgccaaagag catggagctg tagctgtgga gcgagtgacc aagagccctg gagagaccag 360
 taaaccgaga ccatttgcag gaggtggcta ccgccttggg gcagcaccag aggaagagtc 420
 tgccatgtg gcaggagaaa agaggcagca ttccagccaa gatgtcatg tagtattgaa 480
 actctggaag agtggattca gcctggataa tggagaactc agaagctacc aagacccatc 540
 caatgccag tttctggagt ctatccgcag aggggaggtg ccagcagagc ttcggaggct 600
 agctcacggt ggacaggtga acttggatat ggaggaccat cgggacgagg actttgtgaa 660
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 cgtggatgcc cggccagcca tggctgccac cagctttatc ctcatgacta ctttcccga 960
 caaagagctg gctgatgaga gccagaccct gaaggaagcc aacctgctca atgctgtcat 1020
 cgtgcagcgg ttaacataac cgcccagcca gctgcctggc ctccctcctg tgtttcccat 1080
 gccagtggcc atgccccatg gggatcgccc ctctgcccc cttgtgcaca cccagcagtc 1140
 cagtgaacg tctctcccat agctctgggt tcttagatct tggttggacg tttgttttct 1200
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<210> 288
 <211> 1669
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1424)..(1424)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1663)..(1663)
 <223> n equals a,t,g, or c

<400> 288
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 cctttatttc acattccgct tadtccttg acccctcagc atttcagacc tgaaaggaca 120
 ctgggtactgw tgtccttgct ggggcctgtg gctttgcctc tcattccctg gtgaatgtca 180
 ggaaatagag ggctgagact aatttttata ggctctcaat ttttcttgctw tggggacaag 240
 ctgttgactt agctctgaat aggagtaata aggaggcagt gggccaggct gca~~g~~acaac 300
 tggttttcag gcccatataa aaaagtacta actttattat ctcaagccat gcctggccta 360
 ttgcaaagcc cagtgtgggt gtcttggggc ttgtatttga gattggagct tctctgacct 420
 ccagtaccct ttcctcaggg gccacagtgt gtgtcacatg aatggcaagg tgaggtgagg 480
 cttgggggag ctcttggtgc tgtgtcacac caccttacct gtgtgcatta ctctgtgctt 540
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 ctggcttacc caggacatac agtggcagag ccaagactgg agcctagc~~g~~ cttgtactaa 720
 ccattgccagt gccaccatta accccaagtc actagtggta gctacttctg actatgactg 780
 tagtcactgt ctcttgagga ggagcctggc caccagattg atagtcccag ctgagactct 840
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 aaaaattgaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg ggncccttt 1669

<210> 289
 <211> 1515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (69)..(69)

<223> n equals a,t,g, or c

<400> 289

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<210> 290

<211> 1404

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1351)..(1351)

<223> n equals a,t,g, or c

<400> 290

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aaaggcccgg	gacagacact	ttgctgggga	tgtactgggc	tatgtactc	catggaacag	360
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aaaaaaaaaa	aaaaaaaaaa	aaaa				1404

<210> 291
 <211> 2008
 <212> DNA
 <213> Homo sapiens

<400> 291						
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aagtagacaa	ggaatgtgaa	taatgcttag	atcttattga	tgacagagtg	tatcctaata	1920
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<210> 292
 <211> 1162
 <212> DNA
 <213> Homo sapiens

<400> 292

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<210> 293
 <211> 754
 <212> DNA
 <213> Homo sapiens

<400> 293						
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cctgtcccaa	ggcccaggct	gttgggaactg	ggaccctccc	taccctgccc	cagctagaca	660
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<210> 294
 <211> 667
 <212> DNA
 <213> Homo sapiens

<400> 294						
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<210> 295
 <211> 1315
 <212> DNA
 <213> Homo sapiens

<400> 295						
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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa	1315

<210> 296
 <211> 1138
 <212> DNA
 <213> Homo sapiens

<400> 296						
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<210> 297
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n equals a,t,g, or c

<400> 297

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ccgagggggc	ggccgct					1037

<210> 298
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 298

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aaa

1203

<210> 299
<211> 1144
<212> DNA
<213> Homo sapiens

<220>
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<222> (3)..(3)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (10)..(10)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (24)..(24)
<223> n equals a,t,g, or c

<400> 299
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ggaa 1144

<210> 300
<211> 1120
<212> DNA
<213> Homo sapiens

<400> 300
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<210> 301

<211> 4385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (3476)..(3476)

<223> n equals a,t,g, or c

<400> 301

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<212> DNA

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<400> 302

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 <212> DNA
 <213> Homo sapiens

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 <212> PRT
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Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu
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Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr
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His Arg Gly Leu Ile Pro Tyr Val
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<210> 306
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 <212> PRT

<213> Homo sapiens

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 35 40 45
 Xaa Pro Gly Cys Ile Trp Gly Ile Cys Phe Val Gly Leu Leu Leu Gly
 50 55 60
 Ala Xaa Arg Pro Arg Ser Gly Cys Leu Cys Ser Pro Ser Xaa Cys Leu
 65 70 75 80
 Trp Ser Leu Val Val Cys Glu Ser Ile Cys Leu Pro Arg Xaa Gly Pro
 85 90 95
 Asn Gln Ala Pro Pro Xaa Pro Leu Phe Leu Ser Leu Asn Leu Pro Phe

100	105	110
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Glu Ala Met		
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<210> 307
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 307

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50 55 60	
Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu	
65 70 75 80	
Leu Leu Glu Glu Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile	
85 90 95	
Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn	
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Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp	
115 120 125	
Ile Ser Gly Thr Leu Lys Phe Ala Cys Glu Ser Ile Val Glu Glu Tyr	
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Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys	
145 150 155 160	
Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His	
165 170 175	
Ile Ser His Asp Glu Leu	
180	

<210> 308
 <211> 62
 <212> PRT

<213> Homo sapiens

<400> 308

Met Val Ala Val Thr Gly Gly Val Gly Val Ala Ala Ala Leu Cys Leu
1 5 10 15

Cys Ser Leu Leu Leu Trp Pro Thr Arg Leu Arg Arg Ser Arg Gly Gly
20 25 30

Glu His Arg Thr Pro Ser Glu Gly Glu Gly Ile Ser Thr Ala Pro Pro
35 40 45

Pro Cys Trp Asn Glu Thr Gln Pro Gln Gly Gly Ala Lys Leu
50 55 60

<210> 309

<211> 49

<212> PRT

<213> Homo sapiens

<400> 309

Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn
1 5 10 15

Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly
20 25 30

Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu
35 40 45

Ser

<210> 310

<211> 218

<212> PRT

<213> Homo sapiens

<400> 310

Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
1 5 10 15

Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
20 25 30

Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
35 40 45

Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys
50 55 60

Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala
65 70 75 80

Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe
 85 90 95
 Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro Gly Pro
 100 105 110
 Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys
 115 120 125
 Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val
 130 135 140
 Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu
 145 150 155 160
 Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val
 165 170 175
 Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro
 180 185 190
 Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala
 195 200 205
 Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val
 210 215

<210> 311
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 311
 Met Gln Cys Asp Thr Phe Ser Lys Ala Thr Cys Cys Lys Ile Leu Leu
 1 5 10 15
 Leu Ser Cys Cys Val Leu Tyr Leu Val Phe Ser Arg Leu Arg Gly Leu
 20 25 30
 Asp Gln Arg Ser Lys Arg Tyr Ser Leu Pro Asp His
 35 40

<210> 312
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 312
 Met Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu
 1 5 10 15
 Ser Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser

	20		25		30
Trp Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met	35	40	45		
Arg Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro	50	55	60		
Leu Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr	65	70	75		80
Phe Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala	85	90			95
Tyr Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro	100	105			110
Gly Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp	115	120			125
His Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His	130	135			140
Arg Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala	145	150			155
His Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr	165	170			175
Ser Lys Asp Leu Lys	180				

<210> 313

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring amino acids

<400> 313

Met Asn Leu Ser Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn	1	5	10	15
---	---	---	----	----

Phe Ser Leu Phe Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile	20	25	30
---	----	----	----

Cys Ser Gly Asn Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys	35	40	45
---	----	----	----

Ile Phe Lys Glu Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe	50	55	60
---	----	----	----

Val Val
65

<210> 314
<211> 94
<212> PRT
<213> Homo sapiens

<400> 314
Met His Phe Phe Val Glu Ser Thr Ile Val Ser Asp Thr Leu Ile Thr
1 5 10 15
Leu Ser Asn Leu Thr Phe His Lys Cys Pro Glu Tyr Glu Asn Ile Ile
20 25 30
Gln Asp Leu Asn Thr Asn Tyr Gln Asn Leu Gln Leu Ser Asn Gly Arg
35 40 45
Leu Arg Phe Met Leu Cys His Val Phe Ser Ser Phe Leu Phe Val Met
50 55 60
Val Phe Gln Ile Val Glu Lys Glu Asn Ile Leu Phe Val Ile Ala Ser
65 70 75 80
Ala Ser Tyr Phe Cys Lys Thr Asn Tyr Ser Asn Ser Val Val
85 90

<210> 315
<211> 191
<212> PRT
<213> Homo sapiens

<400> 315
Met Ala Ala Pro Arg Gly Arg Ala Ala Pro Trp Thr Thr Ala Leu Leu
1 5 10 15
Leu Leu Leu Ala Ser Gln Val Leu Ser Pro Gly Ser Cys Ala Asp Glu
20 25 30
Glu Glu Val Pro Glu Glu Trp Val Leu Leu His Val Val Gln Gly Gln
35 40 45
Ile Gly Ala Gly Asn Tyr Ser Tyr Leu Arg Leu Asn His Glu Gly Lys
50 55 60
Ile Val Leu Arg Met Arg Ser Leu Lys Gly Asp Ala Asp Leu Tyr Val
65 70 75 80
Ser Ala Ser Ser Leu His Pro Ser Phe Asp Asp Tyr Glu Leu Gln Ser
85 90 95
Ala Thr Cys Gly Pro Asp Ala Val Ser Ile Pro Ala His Phe Arg Arg
100 105 110

Pro Val Gly Ile Gly Val Tyr Gly His Pro Ser His Leu Glu Ser Glu
115 120 125

Phe Glu Met Lys Val Tyr Tyr Asp Gly Thr Val Glu Gln His Pro Phe
130 135 140

Gly Glu Ala Ala Tyr Pro Ala Asp Gly Ala Asp Ala Gly Gln Lys His
145 150 155 160

Ala Gly Ala Pro Glu Asp Ala Ser Gln Glu Glu Glu Ser Val Leu Trp
165 170 175

Thr Ile Leu Ile Ser Ile Leu Lys Leu Glu Leu Glu Ile Leu Phe
180 185 190

<210> 316
<211> 129
<212> PRT
<213> Homo sapiens

<400> 316
Met His Val Leu Pro Leu Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu
1 5 10 15

Leu Ser Ala Ser Phe Val Thr Phe Ser Thr ProThr Ser Ser Arg Asn
20 25 30

Ser Ser Cys Pro Asp Cys Glu Ser Leu Asn Thr Gly Leu Pro Ser Leu
35 40 45

Met Met Phe Gly Gly Ser Leu Leu Lys Trp Val Gln Asn ThrHis Gly
50 55 60

Val Glu Ser Leu Leu Ser Ser Ala Lys Val Arg Leu Leu Pro Pro Ala
65 70 75 80

Leu Gly Val Leu Phe Pro Arg Leu His Pro Gly Thr Leu Thr Leu Val
85 90 95

Phe Leu Leu Ile Pro Phe Leu Thr Val Ser Ser Ser Thr Ser Asp Val
100 105 110

Leu Ser Ser Leu Glu Ser Pro Lys Leu Ser Val Thr Ile Phe His Tyr
115 120 125

Cys

<210> 317
<211> 385
<212> PRT
<213> Homo sapiens

<400> 317

Met	Ser	Phe	Ile	Met	Lys	Leu	His	Arg	His	Phe	Gln	Arg	Thr	Val	Ile	
1				5					10					5		
Leu	Leu	Ala	Thr	Phe	Cys	Met	Val	Ser	Ile	Ile	Ile	Ser	Ala	Tyr	Tyr	
			20					25					30			
Leu	Tyr	Ser	Gly	Tyr	Lys	Gln	Glu	Asn	Glu	Leu	Ser	Glu	Thr	Ala	Ser	
		35					40					45				
Glu	Val	Asp	Cys	Gly	Asp	Leu	Gln	His	Leu	Pro	Tyr	Gln	Leu	Met	Glu	
	50					55					60					
Val	Lys	Ala	Met	Lys	Leu	Phe	Asp	Ala	Ser	Arg	Thr	Asp	Pro	Thr	Val	
65					70					75					80	
Leu	Val	Phe	Val	Glu	Ser	Gln	Tyr	Ser	Ser	Leu	Gly	Gln	Asp	Ile	Ile	
				85					90					95		
Met	Ile	Leu	Glu	Ser	Ser	Arg	Phe	Gln	Tyr	His	Ile	Glu	Ile	Ala	Pro	
			100					105					110			
Gly	Lys	Gly	Asp	Leu	Pro	Val	Leu	Ile	Asp	Lys	Met	Lys	Gly	Lys	Tyr	
		115					120					125				
Ile	Leu	Ile	Ile	Tyr	Glu	Asn	Ile	Leu	Lys	Tyr	Ile	Asn	Met	Asp	Ser	
	130					135					140					
Trp	Asn	Arg	Ser	Leu	Leu	Asp	Lys	Tyr	Cys	Val	Glu	Tyr	Gly	Val	Gly	
145					150					155					160	
Val	Ile	Gly	Phe	His	Lys	Thr	Ser	Glu	Lys	Ser	Val	Gln	Ser	Phe	Gln	
				165					170					175		
Leu	Lys	Gly	Phe	Pro	Phe	Ser	Ile	Tyr	Gly	Asn	Leu	Ala	Val	Lys	Asp	
			180					185					190			
Cys	Cys	Ile	Asn	Pro	His	Ser	Pro	Leu	Ile	Arg	Val	Thr	Lys	Ser	Ser	
		195					200					205				
Lys	Leu	Glu	Lys	Gly	Ser	Leu	Pro	Gly	Thr	Asp	Trp	Thr	Val	Phe	Gln	
	210					215					220					
Ile	Asn	His	Ser	Ala	Tyr	Gln	Pro	Val	Ile	Phe	Ala	Lys	Val	Lys	Thr	
225					230					235					240	
Pro	Glu	Asn	Leu	Ser	Pro	Ser	Ile	Ser	Lys	Gly	Ala	Phe	Tyr	Ala	Thr	
				245					250					255		
Ile	Ile	His	Asp	Leu	Gly	Leu	His	Asp	Gly	Ile	Gln	Arg	Val	Leu	Phe	
			260					265					270			
Gly	Asn	Asn	Leu	Asn	Phe	Trp	Leu	His	Lys	Leu	Ile	Phe	Ile	Asp	Ala	
		275					280					285				
Ile	Ser	Phe	Leu	Ser	Gly	Lys	Arg	Leu	Thr	Leu	Ser	Leu	Asp	Arg	Tyr	

290		295		300
Ile Leu Val Asp	Ile Asp Asp	Ile Phe Val Gly	Lys Glu Gly Thr Arg	
305	310	315	320	
Met Asn Thr Asn	Asp Val Lys Val Arg	Leu Tyr Phe Leu Lys	Phe Gln	
	325	330	335	
Ser Ser Val His	Leu Pro Ala Gly	Ile Gln Leu Ser	Gln Phe Val Leu	
	340	345	350	
Gln Leu Gly Tyr	Pro Gly His Gly	Ile Tyr Trp Glu	Ser Leu Gly Asn	
	355	360	365	
Leu Gly Leu Ser	Leu Thr Leu Asn	Gln Leu Arg Arg	Leu Cys Ile Ser	
370	375	380		
Ile				
385				

<210> 318
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 318
Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu
1 5 10 15
Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn
20 25 30
Leu Leu Ala Leu Pro Ala Ser Pro Cys Ala Val Thr Ala Leu Val Ala
35 40 45
Arg His Arg Arg Ala Gly Leu Gln Arg Ser Ile Gln Cys Leu Leu Gly
50 55 60
Arg Gln Gly Gly Gly Gly Cys Asn Cys Glu Leu Thr Lys Pro Gln Val
65 70 75 80
Gly Ser Lys Trp Val Gly His Arg Lys Lys Ser Asp Leu Gln Ser Gly
85 90 95
Asp Leu Gly Ser Gly Leu Cys Leu Met Thr Gly Ser Val Met
100 105 110

<210> 319
 <211> 258
 <212> PRT
 <213> Homo sapiens
 <400> 319

Met Tyr Ile Trp Phe Ile Ile Phe Phe Ile Gln Pro His Lys Glu Glu
 1 5 10 15
 Arg Phe Leu Phe Pro Val Tyr Pro Leu Ile Cys Leu Cys Gly Ala Val
 20 25 30
 Ala Leu Ser Ala Leu Gln Lys Cys Tyr His Phe Val Phe Gln Arg Tyr
 35 40 45
 Arg Leu Glu His Tyr Thr Val Thr Ser Asn Trp Leu Ala Leu Gly Thr
 50 55 60
 Val Phe Leu Phe Gly Leu Leu Ser Phe Ser Arg Ser Val Ala Leu Phe
 65 70 75 80
 Arg Gly Tyr His Gly Pro Leu Asp Leu Tyr Pro Glu Phe Tyr Arg Ile
 85 90 95
 Ala Thr Asp Pro Thr Ile His Thr Val Pro Glu Gly Arg Pro Val Asn
 100 105 110
 Val Cys Val Gly Lys Glu Trp Tyr Arg Phe Pro Ser Ser Phe Leu Leu
 115 120 125
 Pro Asp Asn Trp Gln Leu Gln Phe Ile Pro Ser Glu Phe Arg Gly Gln
 130 135 140
 Leu Pro Lys Pro Phe Ala Glu Gly Pro Leu Ala Thr Arg Ile Val Pro
 145 150 155 160
 Thr Asp Met Asn Asp Gln Asn Leu Glu Glu Pro Ser Arg Tyr Ile Asp
 165 170 175
 Ile Ser Lys Cys His Tyr Leu Val Asp Leu Asp Thr Met Arg Glu Thr
 180 185 190
 Pro Arg Glu Pro Lys Tyr Ser Ser Asn Lys Glu Glu Trp Ile Ser Leu
 195 200 205
 Ala Tyr Arg Pro Phe Leu Asp Ala Ser Arg Ser Ser Lys Leu Leu Arg
 210 215 220
 Ala Phe Tyr Val Pro Phe Leu Ser Asp Gln Tyr Thr Val Tyr Val Asn
 225 230 235 240
 Tyr Thr Ile Leu Lys Pro Arg Lys Ala Lys Gln Ile Arg Lys Lys Ser
 245 250 255
 Gly Gly

<210> 320
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 320

Met Lys Asn Met Asn Ser Arg Tyr Tyr Leu Arg Ala Ile Phe Cys Leu
1 5 10 15
Tyr Thr Leu Ala Cys Ile Leu Phe Leu Gln Ile Ile Leu Lys Ala Arg
20 25 30
Cys Gly Gly Ser Arg Leu
35

<210> 321

<211> 146

<212> PRT

<213> Homo sapiens

<400> 321

Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Leu Gly
1 5 10 15
Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile
20 25 30
Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp
35 40 45
Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Ser
50 55 60
Arg Asp Ala Ser Ser Gly Glu Glu Glu Glu Gly Lys Glu Lys Lys Thr
65 70 75 80
Phe Pro Ile Ser Gly Ala Arg Gly Gly Ala Arg Gly Thr Arg Tyr Arg
85 90 95
Tyr Val Ser Gln Ala Gln Pro Arg Gly Lys Pro Arg Gln Asp Thr Ala
100 105 110
Lys Ser Pro His Arg Thr Lys Phe Thr Leu Ser Leu Asp Val Pro Thr
115 120 125
Asn Ile Met Asn Leu Leu Phe Asn Ile Ala Lys Ala Lys Asn Leu Arg
130 135 140
Ala Gln
145

<210> 322

<211> 199

<212> PRT

<213> Homo sapiens

<400> 322

Met Arg Arg Leu Leu Leu Ala Leu Pro Phe Ala Leu Leu Pro Leu Ala
 1 5 10 15
 Val Ala His Ala His Glu Asp His Asp His Glu His Gly Ser LeuGly
 20 25 30
 Ala His Glu His Gly Val Gly Arg Leu Asn Ala Val Leu Asp Gly Gln
 35 40 45
 Ala Leu Glu Leu Glu Leu Asp Ser Pro Ala Met Asn Leu Val Gly Phe
 50 55 60
 Glu His Val Ala Thr Ser Ala Ala Asp Lys Ala Lys Val Ala Ala Val
 65 70 75 80
 Arg Lys Gln Leu Glu Asn Pro Ser Ala Leu Phe Asn Leu Pro Lys Ala
 85 90 95
 Ala Gly Cys Val Val Ser Ser Gln Glu Leu Asn Ser Pro Leu Phe Gly
 100 105 110
 Asp Lys Pro Glu Ala Glu His Asp Asp Asp Asp His Ala Ser Asp Gly
 115 120 125
 Lys Gly Ala Ala Ala His Lys His Asp His Asp His Ser Glu Ile His
 130 135 140
 Ala His Tyr Gln Phe Thr Cys Ala Thr Pro Thr Ala Leu Gly Asn Leu
 145 150 155 160
 Asp Leu Ser Gln Val Phe Lys Thr Phe Pro Ala Thr Gln Lys Ile Gln
 165 170 175
 Val Gln Leu Ile Gly Pro Ser Gly Gln Gln Gly Val Asp Ala Thr Ala
 180 185 190
 Thr Ala Ala Thr Leu Lys Phe
 195

<210> 323

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<400> 323

Met Trp Val Phe Phe Leu Pro Phe Phe Ser Ile Leu Phe Lys Ile Cys
 1 5 10 15

Trp Cys Ile Ser Leu Ser Gln Thr Lys Glu Lys Gln Ser Ser Asn Leu
 20 25 30

Met Phe Tyr Phe Phe Cys Ile Cys Thr Tyr Glu Arg Arg Arg Lys Lys
35 40 45
Glu Met Arg Arg Gly Glu Lys Lys Arg Ser Phe Cys Leu Ile Gly Leu
50 55 60
Xaa Gln His Met Ile Ala Val Gln Ala Trp Phe His Glu Gln His Gln
65 70 75 80
Ile Gln Ile Ser

<210> 324
<211> 74
<212> PRT
<213> Homo sapiens

<400> 324
Met Ala Cys Leu Gly Ala Pro Ile Ser Ser Leu Leu Cys Trp Leu Leu
1 5 10 15
Leu Ala Leu Ile Ala Leu Glu Ile Val Pro Pro Ala Ala Pro Cys Glu
20 25 30
Val Leu Thr Pro Leu Gln Ser Ser Thr Asn Pro Ile Val Asn Lys Leu
35 40 45
Gly Val Lys Asp Val Asn Glu Leu Val Thr Pro Met Gln Gly Ile Gln
50 55 60
Thr Cys Phe Asn Ile Lys Lys Lys Trp Pro
65 70

<210> 325
<211> 57
<212> PRT
<213> Homo sapiens

<400> 325
Met Ala Val Ser Val Ile Phe Cys Gln Lys Leu Lys Thr Gly Ser Val
1 5 10 15
Lys Leu Trp Ile Gln Met Leu Leu Trp Leu Gln Phe Ser Val Ala Cys
20 25 30
Leu Arg Leu Arg Lys Gly Gly Lys Trp Ser Pro Trp Gly Leu Met Leu
35 40 45
Lys Glu Val Ile Trp Lys Asp Cys Arg
50 55

<210> 326
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 326
 Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser
 1 5 10 15
 Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser
 20 25 30
 Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro
 35 40 45
 Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro
 50 55 60
 Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr
 65 70 75 80
 His Ile Arg

<210> 327
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 327
 Met Val Ser Leu Leu Ser Leu Thr Phe His Gln Phe Val Ser Ser Leu
 1 5 10 15
 Lys Tyr Phe Lys Leu Leu Ser Thr Ser Arg Gln Glu Ile Leu
 20 25 30

<210> 328
 <211> 336
 <212> PRT
 <213> Homo sapiens

<400> 328
 Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val
 1 5 10 15
 Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu
 20 25 30
 Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His
 35 40 45
 His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly

50					55					60					
Gly 65	Asp	Glu	Pro	Leu	Ala 70	Glu	Thr	Glu	Ser	Glu 75	Ser	Glu	Ala	Glu	Leu 80
Ala	Gly	Phe	Ser	Pro 85	Val	Val	Asp	Val	Lys 90	Lys	Thr	Ala	Leu	Ala 95	Leu
Ala	Ile	Thr	Asp 100	Ser	Glu	Leu	Ser	Asp 105	Glu	Glu	Ala	Ser	Ile	Leu 110	Glu
Ser	Gly	Gly 115	Phe	Ser	Val	Ser	Arg	Ala	Thr	Thr	Pro	Gln 125	Leu	Thr	Asp
Val	Ser	Glu	Asp	Leu	Asp	Gln 135	Gln	Ser	Leu	Pro	Ser	Glu 140	Pro	Glu	Glu
Thr 145	Leu	Ser	Arg	Asp	Leu	Gly 150	Glu	Gly	Glu	Glu 155	Gly	Glu	Leu	Ala	Pro 160
Pro	Glu	Asp	Leu	Leu 165	Gly	Arg	Pro	Gln	Ala	Leu 170	Ser	Arg	Gln	Ala 175	Leu
Asp	Ser	Glu	Glu 180	Glu	Glu	Glu	Asp	Val	Ala	Ala 185	Lys	Glu	Thr	Leu 190	Leu
Arg	Leu	Ser 195	Ser	Pro	Leu	His	Phe	Val	Asn	Thr	His	Phe 205	Asn	Gly	Ala
Gly 210	Ser	Pro	Gln	Asp	Gly	Val 215	Lys	Cys	Ser	Pro	Gly 220	Gly	Pro	Val	Glu
Thr 225	Leu	Ser	Pro	Glu	Thr	Val 230	Ser	Gly	Gly	Leu 235	Thr	Ala	Leu	Pro	Gly 240
Thr	Leu	Ser	Pro	Pro 245	Leu	Cys	Leu	Val	Gly	Ser 250	Asp	Pro	Ala	Pro 255	Ser
Pro	Ser	Ile	Leu	Pro 260	Pro	Val	Pro	Gln	Asp	Ser 265	Pro	Gln	Pro	Leu 270	Pro
Ala	Pro	Glu	Glu	Glu	Glu	Ala	Leu	Thr	Thr	Glu	Asp	Phe	Glu	Leu 285	Leu
Asp	Gln	Gly	Glu	Leu	Glu	Gln 295	Leu	Asn	Ala	Glu 300	Leu	Gly	Leu	Glu	Pro
Glu 305	Thr	Pro	Pro	Lys	Pro	Pro	Asp	Ala	Pro	Pro 315	Leu	Gly	Pro	Asp	Ile 320
His	Ser	Leu	Val	Gln 325	Ser	Asp	Gln	Glu	Ala	Gln 330	Ala	Ala	Ala	Glu	Pro 335

<210> 329
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 329
 Met Val Ser Arg Ser Thr Ser Leu Thr Leu Ile Val Phe Leu Phe His
 1 5 10 15
 Arg Leu Ser Lys Ala Pro Gly Lys Met Val Glu Asn Ser Pro Ser Pro
 20 25 30
 Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln
 35 40 45
 Phe Gly Phe Lys Asn Leu Lys Gly Ser Arg Val Cys
 50 55 60

<210> 330
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 330
 Met Gly Ile Phe Pro Gly Ile Ile Leu Ile Phe Leu Arg Val Lys Phe
 1 5 10 15
 Ala Thr Ala Ala Val Ile Val Ser Gly His Gln Lys Ser Thr Thr Val
 20 25 30
 Ser His Glu Met Ser Gly Leu Asn Trp Lys Pro Phe Val Tyr Gly Gly
 35 40 45
 Leu Ala Ser Ile Val Ala Glu Phe Gly Thr Phe Pro Val Asp Leu Thr
 50 55 60
 Lys Thr Arg Leu Gln Val Gln Gly Gln Ser Ile Asp Ala Arg Phe Lys
 65 70 75 80
 Glu Ile Lys Tyr Arg Gly Met Phe His Ala Leu Phe Arg Ile Cys Lys
 85 90 95
 Glu Glu Gly Val Leu Ala Leu Tyr Ser Gly Ile Ala Pro Ala Leu Leu
 100 105 110
 Arg Gln Ala Ser Tyr Gly Thr Ile Lys Ile Gly Ile Tyr Gln Ser Leu
 115 120 125
 Lys Arg Leu Phe Val Glu Arg Leu Glu Asp Glu Thr Leu Leu Ile Asn
 130 135 140
 Met Ile Cys Gly Val Val Ser Gly Val Ile Ser Ser Thr Ile Ala Asn
 145 150 155 160

Pro Thr Asp Val Leu Lys Ile Arg Met Gln Ala Gln Gly Ser Leu Phe
165 170 175

Gln Gly Ser Met Ile Gly Ser Phe Ile Asp Ile Tyr Gln Gln Glu Gly
180 185 190

Thr Arg Gly Leu Trp Arg Val Ser Thr Leu Phe Leu Leu Leu Ser Tyr
195 200 205

Thr Leu Ser Ser Tyr Asn Leu Gln Arg Ile Phe Phe Tyr Ile Lys Thr
210 215 220

<210> 331
<211> 58
<212> PRT
<213> Homo sapiens

<400> 331
Met Ser Ser Phe Pro Gly Pro Gln Cys Val Gln Leu Ile Asn LeuLeu
1 5 10 15

His Leu Ile Cys Pro Val Ser Gly Leu Val Cys Ser Ala Ile Thr Ile
20 25 30

Ala Leu Arg Gln Lys Ser Ile Pro His Gln Gln Gly Arg Glu Ala Val
35 40 45

Ile Lys Thr Pro Pro Pro Gly Ser Leu Pro
50 55

<210> 332
<211> 46
<212> PRT
<213> Homo sapiens

<400> 332
Met Asp Leu Leu Gln Val Cys Phe Phe Leu Phe Phe Ser His Leu Trp
1 5 10 15

Ser Trp Thr Glu Gly Lys Leu Pro Cys Asn Phe Pro Gly Pro Val Gly
20 25 30

Arg Val Phe Leu Ser Pro Phe Gln Met Leu Gly Phe Lys Gln
35 40 45

<210> 333
<211> 47
<212> PRT

<213> Homo sapiens

<400> 333

Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys Phe Cys Ile
1 5 10 15
Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu
20 25 30
Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His Ala
35 40 45

<210> 334

<211> 40

<212> PRT

<213> Homo sapiens

<400> 334

Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile
1 5 10 15
Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu
20 25 30
Lys Thr Val Thr His Ile Glu Gln
35 40

<210> 335

<211> 65

<212> PRT

<213> Homo sapiens

<400> 335

Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln
1 5 10 15
Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu
20 25 30
Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala
35 40 45
Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly
50 55 60
Leu
65

<210> 336

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring amino acids

<400> 336

Met	Gly	Ala	Ala	Lys	Val	Trp	Gly	Glu	Val	Gly	Arg	Trp	Leu	Val	Ile
1				5					10					15	
Ala	Leu	Ile	Gln	Leu	Ala	Lys	Ala	Val	Leu	Arg	Met	Leu	Leu	Leu	Leu
			20					25					30		
Trp	Phe	Lys	Ala	Gly	Leu	Gln	Thr	Ser	Pro	Pro	Ile	Val	Pro	Leu	Asp
		35					40					45			
Arg	Glu	Thr	Arg	His	Ser	Pro	Arg	Met	Val	Thr	Thr	Ala	Xaa	Xaa	Thr
	50					55					60				
Met	Ser	Ser	Pro	Thr	Trp	Gly	Ser	Gly	Gln	Thr	Gly	Trp	Cys	Glu	Pro
65					70				75						80
Ser	Arg	Thr	Arg	Arg	Pro	Cys	Thr	Pro	Gly	Thr	Gly	Glu	Leu	Pro	Ser
				85					90					95	
Ser	Gly	Arg	Asp	Gly	Ser	Ser	Ser	Ile	Thr	Arg	Ser				
			100					105							

<210> 337

<211> 413

<212> PRT

<213> Homo sapiens

<400> 337

Met	Arg	Arg	Gly	Cys	Ala	Val	Leu	Gly	Ala	Leu	Gly	Leu	Leu	Ala	Gly
1				5					10					15	
Ala	Gly	Val	Gly	Ser	Trp	Leu	Leu	Val	Leu	Tyr	Leu	Cys	Pro	Ala	Ala
			20					25					30		
Ser	Gln	Pro	Ile	Ser	Gly	Thr	Leu	Gln	Asp	Glu	Glu	Ile	Thr	Leu	Ser
		35					40					45			
Cys	Ser	Glu	Ala	Ser	Ala	Glu	Glu	Ala	Leu	Leu	Pro	Ala	Leu	Pro	Lys
	50					55					60				
Thr	Val	Ser	Phe	Arg	Ile	Asn	Ser	Glu	Asp	Phe	Leu	Leu	Glu	Ala	Gln
65					70					75					80

Val Arg Asp Gln Pro Arg Trp Leu Leu Val Cys His Glu Gly Trp Ser
85 90 95
Pro Ala Leu Gly Leu Gln Ile Cys Trp Ser Leu Gly His Leu Arg Leu
100 105 110
Thr His His Lys Gly Val Asn Leu Thr Asp Ile Lys Leu Asn Ser Ser
115 120 125
Gln Glu Phe Ala Gln Leu Ser Pro Arg Leu Gly Gly Phe Leu Glu Glu
130 135 140
Ala Trp Gln Pro Arg Asn Asn Cys Thr Ser Gly Gln Val Val Ser Leu
145 150 155 160
Arg Cys Ser Glu Cys Gly Ala Arg Pro Leu Ala Ser Arg Ile Val Gly
165 170 175
Gly Gln Ser Val Ala Pro Gly Arg Trp Pro Trp Gln Ala Ser Val Ala
180 185 190
Leu Gly Phe Arg His Thr Cys Gly Gly Ser Val Leu Ala Pro Arg Trp
195 200 205
Val Val Thr Ala Ala His Cys Met His Ser Phe Arg Leu Ala Arg Leu
210 215 220
Ser Ser Trp Arg Val His Ala Gly Leu Val Ser His Ser Ala Val Arg
225 230 235 240
Pro His Gln Gly Ala Leu Val Glu Arg Ile Ile Pro His Pro Leu Tyr
245 250 255
Ser Ala Gln Asn His Asp Tyr Asp Val Ala Leu Leu Arg Leu Gln Thr
260 265 270
Ala Leu Asn Phe Ser Asp Thr Val Gly Ala Val Cys Leu Pro Ala Lys
275 280 285
Glu Gln His Phe Pro Lys Gly Ser Arg Cys Trp Val Ser Gly Trp Gly
290 295 300
His Thr His Pro Ser His Thr Tyr Ser Ser Asp Met Leu Gln Asp Thr
305 310 315 320
Val Val Pro Leu Phe Ser Thr Gln Leu Cys Asn Ser Ser Cys Val Tyr
325 330 335
Ser Gly Ala Leu Thr Pro Arg Met Leu Cys Ala Gly Tyr Leu Asp Gly
340 345 350
Arg Ala Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Pro
355 360 365
Asp Gly Asp Thr Trp Arg Leu Val Gly Val Val Ser Trp Gly Arg Gly
370 375 380

Cys Ala Glu Pro Asn His Pro Gly Val Tyr Ala Lys Val Ala Glu Phe
 385 390 395 400

Leu Asp Trp Ile His Asp Thr Ala Gln Asp Ser Leu Leu
 405 410

<210> 338
 <211> 315
 <212> PRT
 <213> Homo sapiens

<400> 338
 Met Glu Ser Leu Tyr Asp Leu Trp Glu Phe Tyr Leu Pro Tyr Leu Tyr
 1 5 10 15
 Ser Cys Ile Ser Leu Met Gly Cys Leu Leu Leu Leu Cys Thr Pro
 20 25 30
 Val Gly Leu Ser Arg Met Phe Thr Val Met Gly Gln Leu Leu Val Lys
 35 40 45
 Pro Thr Ile Leu Glu Asp Leu Asp Glu Gln Ile Tyr Ile Ile Thr Leu
 50 55 60
 Glu Glu Glu Ala Leu Gln Arg Arg Leu Asn Gly Leu Ser Ser Ser Val
 65 70 75 80
 Glu Tyr Asn Ile Met Glu Leu Glu Gln Glu Leu Glu Asn Val Lys Thr
 85 90 95
 Leu Lys Thr Lys Leu Asp Pro Trp Ser Ser Phe Ser Val Leu Gln Ser
 100 105 110
 Pro Val Trp His Phe Ala Ala Gln Thr Pro Ala Asp Ile Val Ser Pro
 115 120 125
 Asp Ser His Phe Met Leu Ser Thr Gln Gly Met Ser Trp Ala Gln Leu
 130 135 140
 Val Phe Leu Leu Pro Ala Ser Arg Pro Gly Asn Ser Gln Asp Lys Arg
 145 150 155 160
 Arg Lys Lys Ala Ser Ala Trp Glu Arg Asn Leu Val Tyr Pro Ala Val
 165 170 175
 Met Val Leu Leu Leu Ile Glu Thr Ser Ile Ser Val Leu Leu Val Ala
 180 185 190
 Cys Asn Ile Leu Cys Leu Leu Val Asp Glu Thr Ala Met Pro Lys Gly
 195 200 205
 Thr Arg Gly Pro Gly Ile Gly Asn Ala Ser Leu Ser Thr Phe Gly Phe
 210 215 220
 Val Gly Ala Ala Leu Glu Ile Ile Leu Ile Phe Tyr Leu Met Val Ser

225		230		235		240
Ser	Val	Val	Gly	Phe	Tyr	Pro
				245		255
Lys	Lys	Asp	Asp	Thr	Thr	Met
			260			265
Ile	Leu	Val	Leu	Ser	Ser	Ala
		275				280
Leu	His	Lys	Leu	His	Leu	Pro
	290				295	
Lys	Pro	Ser	Val	Asn	Gly	His
305				310		315

<210> 339
 <211> 941
 <212> PRT
 <213> Homo sapiens

<400> 339
Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr MetSer Phe Leu
1 5 10 15
Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
20 25 30
Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr ProPhe Pro
35 40 45
Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
50 55 60
Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
65 70 75 80
Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
85 90 95
Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
100 105 110
Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
115 120 125
Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
130 135 140
Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
145 150 155 160
Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
165 170 175

Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro
 180 185 190
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg
 195 200 205
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser
 210 215 220
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val
 225 230 235 240
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser
 245 250 255
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val
 260 265 270
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr
 275 280 285
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro
 290 295 300
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu
 305 310 315 320
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala
 325 330 335
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala
 340 345 350
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp
 355 360 365
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe
 370 375 380
 Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe
 385 390 395 400
 Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser
 405 410 415
 His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met
 420 425 430
 Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu
 435 440 445
 Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr
 450 455 460
 Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp
 465 470 475 480

Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly
 485 490 495
 Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln
 500 505 510
 Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg
 515 520 525
 Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met
 530 535 540
 Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly
 545 550 555 560
 Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met
 565 570 575
 Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro
 580 585 590
 Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr
 595 600 605
 Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu
 610 615 620
 Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile
 625 630 635 640
 Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys
 645 650 655
 Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro
 660 665 670
 Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu
 675 680 685
 Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile
 690 695 700
 Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly
 705 710 715 720
 Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu Leu Ala Cys
 725 730 735
 Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg
 740 745 750
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr
 755 760 765
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe
 770 775 780

Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln
 785 790 795 800
 Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys Leu Gln Trp
 805 810 815
 Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe
 820 825 830
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu
 835 840 845
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe
 850 855 860
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn
 865 870 875 880
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser
 885 890 895
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile
 900 905 910
 Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys
 915 920 925
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 340
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 340
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys Val His
 1 5 10 15
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser
 20 25 30
 His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp
 35 40 45
 Thr Phe Asn His Asp
 50

<210> 341
 <211> 578
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (326)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (342)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (444)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 341
 Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu
 1 5 10 15
 Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro
 20 25 30
 Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp
 35 40 45
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr
 50 55 60
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp
 65 70 75 80
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg
 85 90 95
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn
 100 105 110
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Ser
 115 120 125
 Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp
 130 135 140
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys
 145 150 155 160
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val
 165 170 175
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr
 180 185 190
 Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu
 195 200 205
 Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg

210	215	220
Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp 225 230 235 240		
Val Leu Thr Gly Lys Trp Val Ala Gln Asp AlaGly Ile Gly Ala Gly 245 250 255		
Val Asp Ser Tyr Phe Glu Tyr Leu Val Lys Gly Ala Ile Leu Leu Gln 260 265 270		
Asp Lys Lys Leu Met Ala Met Phe Leu Glu Tyr AsnLys Ala Ile Arg 275 280 285		
Asn Tyr Thr Arg Phe Asp Asp Trp Tyr Leu Trp Val Gln Met Tyr Lys 290 295 300		
Gly Thr Val Ser Met Pro Val Phe Gln Ser Leu Glu Ala Tyr Trp Pro 305 310 315 320		
Gly Leu Gln Ser Leu Xaa Gly Asp Ile Asp Asn Ala Met Arg Thr Phe 325 330 335		
Leu Asn Tyr Tyr Thr Xaa Trp Lys Gln Phe Gly Gly Leu Pro Glu Phe 340 345 350		
Tyr Asn Ile Pro Gln Gly Tyr Thr Val Glu Lys Arg Glu Gly Tyr Pro 355 360 365		
Leu Arg Pro Glu Leu Ile Glu Ser Ala Met Tyr Leu Tyr Arg Ala Thr 370 375 380		
Gly Asp Pro Thr Leu Leu Glu Leu Gly Arg Asp Ala Val Glu Ser Ile 385 390 395 400		
Glu Lys Ile Ser Lys Val Glu Cys Gly Phe Ala Thr Ile Lys Asp Leu 405 410 415		
Arg Asp His Lys Leu Asp Asn Arg Met Glu Ser Phe Phe Leu Ala Glu 420 425 430		
Thr Val Lys Tyr Leu Tyr Leu Leu Phe Asp Pro Xaa Asn Phe Ile His 435 440 445		
Asn Asn Gly Ser Thr Phe Asp Ala Val Ile Thr Pro Tyr Gly Glu Cys 450 455 460		
Ile Leu Gly Ala Gly Gly Tyr Ile Phe Asn Thr Glu Ala His Pro Ile 465 470 475 480		
Asp Pro Ala Ala Leu His Cys Cys Gln Arg Leu Lys Glu Glu Gln Trp 485 490 495		
Glu Val Glu Asp Leu Met Arg Glu Phe Tyr Ser Leu Lys Arg Ser Arg 500 505 510		
Ser Lys Phe Gln Lys Asn Thr Val Ser Ser Gly Pro Trp Glu Pro Pro		

515 520 525
 Ala Arg Pro Gly Thr Leu Phe Ser Pro Glu Asn His Asp Gln Ala Arg
 530 535 540
 Glu Arg Lys Pro Ala Lys Gln Lys Val Pro Leu Leu Ser Cys Pro Ser
 545 550 555 560
 Gln Pro Phe Thr Ser Lys Leu Ala Leu Leu Gly Gln Val Phe Leu Asp
 565 570 575
 Ser Ser

<210> 342
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 342
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
 1 5 10 15
 Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
 20 25 30
 Phe Gly Phe Lys Trp Leu Lys Asp
 35 40

<210> 343
 <211> 484
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (322)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (345)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (374)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 343
 Met Val Ala Thr Val Cys Gly Leu Leu Val Phe Leu Ser Leu Gly Leu
 1 5 10 15

Val Pro Pro Val Arg Cys Leu Phe Ala Leu Ser Val Pro Thr Leu Gly
20 25 30
Met Glu Gln Gly Arg Arg Leu Leu Leu Ser Tyr Ser Thr Ala Thr Leu
35 40 45
Ala Ile Ala Val Val Pro Asn Val Leu Ala Asn Val Gly Ala Ala Gly
50 55 60
Gln Val Leu Arg Cys Val Thr Glu Gly Ser Leu Glu Ser Leu Leu Asn
65 70 75 80
Thr Thr His Gln Leu His Ala Ala Ser Arg Ala Leu Gly Pro Thr Gly
85 90 95
Gln Ala Gly Ser Arg Gly Leu Thr Phe Glu Ala Gln Asp Asn Gly Ser
100 105 110
Ala Phe Tyr Leu His Met Leu Thr Val Thr Gln Gln Val Leu Glu Asp
115 120 125
Phe Ser Gly Leu Glu Ser Leu Ala Arg Ala Ala Ala Leu Gly Thr Gln
130 135 140
Arg Val Val Thr Gly Leu Phe Met Leu Gly Leu Leu Val Glu Ser Ala
145 150 155 160
Trp Tyr Leu His Cys Tyr Leu Thr Asp Leu Arg Phe Asp Asn Ile Tyr
165 170 175
Ala Thr Gln Gln Leu Thr Gln Arg Leu Ala Gln Ala Gln Ala Thr His
180 185 190
Leu Leu Ala Pro Pro Pro Thr Trp Leu Leu Gln Ala Ala Gln Leu Arg
195 200 205
Leu Ser Gln Glu Glu Leu Leu Ser Cys Leu Leu Arg Leu Gly Leu Leu
210 215 220
Ala Leu Leu Leu Val Ala Thr Ala Val Ala Val Ala Thr Asp His Val
225 230 235 240
Ala Phe Leu Leu Ala Gln Ala Thr Val Asp Trp Ala Gln Lys Leu Pro
245 250 255
Thr Val Pro Ile Thr Leu Thr Val Lys Tyr Asp Val Ala Tyr ThrVal
260 265 270
Leu Gly Phe Ile Pro Phe Leu Phe Asn Gln Leu Ala Pro Glu Ser Pro
275 280 285
Phe Leu Ser Val His Ser Ser Tyr Gln Trp Glu Leu Arg Leu Thr Ser
290 295 300
Ala Arg Cys Pro Leu Leu Pro Ala Arg Arg Pro Arg Ala Ala Ala Pro
305 310 315 320

Val Gly Tyr Ile Phe Thr Thr Asp Arg Asp Ile Ile Asn Leu Val Ala
 35 40 45
 Gln Val Val Pro Ile Tyr Ala Val Ser His Leu Phe Glu Ala Leu Ala
 50 55 60
 Cys Thr Ser Gly Gly Val Leu Arg Gly Ser Gly Asn Gln Lys Val Gly
 65 70 75 80
 Ala Ile Val Asn Thr Ile Gly Xaa Tyr Val Val Gly Leu Pro Ile Gly
 85 90 95
 Ile Ala Leu Met Phe Ala Thr Thr Leu Gly Val Met Gly Leu Trp Ser
 100 105 110
 Gly Ile Ile Ile Cys Thr Val Phe Gln Ala Val Cys Phe Leu Gly Phe
 115 120 125
 Ile Ile Gln Leu Asn Trp Lys Lys Ala Cys Xaa Gln Ala Gln Val His
 130 135 140
 Ala Asn Leu Lys Val Asn Asn Val Pro Arg Ser Gly Asn Ser Ala Leu
 145 150 155 160
 Pro Gln Asp Pro Leu His Pro Gly Cys Pro Glu Asn Leu Glu Gly Ile
 165 170 175
 Leu Thr Asn Asp Val Gly Lys Thr Gly Glu Pro Gln Ser Asp Gln Gln
 180 185 190
 Met Arg Gln Glu Glu Pro Leu Pro Glu His Pro Gln Asp Gly Ala Lys
 195 200 205
 Leu Ser Arg Lys Gln Leu Val Leu Arg Arg Gly Leu Leu Leu Leu Gly
 210 215 220
 Val Phe Leu Ile Leu Leu Val Gly Ile Leu Val Arg Phe Tyr Val Arg
 225 230 235 240
 Ile Gln

<210> 345
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 345
 Met Phe Ala Pro Cys Phe Val Asn Leu Ala Leu Phe Tyr Leu Tyr Ile
 1 5 10 15
 Asn Ser Cys Asn Leu Leu Asn Leu Thr Ser Ile Asp Pro Phe Gln Gln
 20 25 30
 Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser

35

40

45

<210> 346
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 346
 Met Lys Val Val Val Val Met Val Val Ile Leu Val Val Val Thr Leu
 1 5 10 15
 Val Val Val Val Met Val Val Ile Leu Val Met Val Val Met Val Val
 20 25 30
 Ala Leu Val Thr Leu Thr Trp Gly Pro Val Ala Val Thr Val Asp Ala
 35 40 45
 Gly Ser Trp
 50

<210> 347
 <211> 802
 <212> PRT
 <213> Homo sapiens

<400> 347
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Bu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Cys Pro Gly Val Trp Pro
 20 25 30
 Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Sr Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser Val Pro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His Ala Tyr Asn Pro
 85 90 95
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr Cys His Trp
 115 120 125

Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Tyr Phe Pro Pro Glu Asp Gly Leu Thr Arg Val
 195 200 205
 Gly Phe Arg Thr Val Leu Leu Arg Ile Arg Glu Gln Trp Lys Gln Asn
 210 215 220
 Lys Asn Thr Leu Leu Glu Asn Ser Gln Arg Val Thr Thr Ala Leu Leu
 225 230 235 240
 Ala Arg Ser Glu Ile Ser Val Gly Asp Arg Gln Leu Pro Pro Ser Ala
 245 250 255
 Ala Thr Val Asn Asn Arg Cys Phe Gln Gln Leu Asp Glu Gly Tyr Asp
 260 265 270
 Glu Glu Tyr Gly Gly Phe Ala Glu Ala Pro Lys Phe Pro Thr Pro Val
 275 280 285
 Ile Leu Ser Phe Leu Phe Ser Tyr Trp Leu Ser His Arg Leu Thr Gln
 290 295 300
 Asp Gly Ser Arg Ala Gln Gln Met Ala Leu His Thr Leu Lys Met Met
 305 310 315 320
 Ala Asn Gly Gly Ile Arg Asp His Val Gly Gln Gly Phe His Arg Tyr
 325 330 335
 Ser Thr Asp Arg Gln Trp His Val Pro His Phe Glu Lys Met Leu Tyr
 340 345 350
 Asp Gln Ala Gln Leu Ala Val Ala Tyr Ser Gln Ala Phe Gln Leu Ser
 355 360 365
 Gly Asp Glu Phe Tyr Ser Asp Val Ala Lys Gly Ile Leu Gln Tyr Val
 370 375 380
 Ala Arg Ser Leu Ser His Arg Ser Gly Gly Phe Tyr Ser Ala Glu Asp
 385 390 395 400
 Ala Asp Ser Pro Pro Glu Arg Gly Gln Arg Pro Lys Glu Gly Ala Tyr
 405 410 415
 Tyr Val Trp Thr Val Lys Glu Val Gln Gln Leu Leu Pro Glu Pro Val
 420 425 430

Leu Gly Ala Thr Glu Pro Leu Thr Ser Gly Gln Leu Leu Met Lys His
 435 440 445
 Tyr Gly Leu Thr Glu Ala Gly Asn Ile Ser Pro Ser Gln Asp Pro Lys
 450 455 460
 Gly Glu Leu Gln Gly Gln Asn Val Leu Thr Val Arg Tyr Ser Leu Glu
 465 470 475 480
 Leu Thr Ala Ala Arg Phe Gly Leu Asp Val Glu Ala Val Arg Thr Leu
 485 490 495
 Leu Asn Ser Gly Leu Glu Lys Leu Phe Gln Ala Arg Lys His Arg Pro
 500 505 510
 Lys Pro His Leu Asp Ser Lys Met Leu Ala Ala Trp Asn Gly Leu Met
 515 520 525
 Val Ser Gly Tyr Ala Val Thr Gly Ala Val Leu Gly Gln Arg Arg Leu
 530 535 540
 Ile Asn Tyr Ala Thr Asn Gly Ala Lys Phe Leu Lys Arg His Met Phe
 545 550 555 560
 Asp Val Ala Ser Gly Arg Leu Met Arg Thr Cys Tyr Thr Gly Pro Tyr
 565 570 575
 Gly Thr Val Glu His Ser Asn Pro Pro Cys Trp Gly Phe Leu Glu Asp
 580 585 590
 Tyr Ala Phe Val Val Arg Gly Leu Leu Asp Leu Tyr Glu Ala Ser Gln
 595 600 605
 Glu Ser Ala Trp Leu Glu Trp Ala Leu Arg Leu Gln Asp Thr Gln Asp
 610 615 620
 Arg Leu Phe Trp Asp Ser Gln Gly Gly Gly Tyr Phe Cys Ser Glu Ala
 625 630 635 640
 Glu Leu Gly Ala Gly Leu Pro Leu Arg Leu Lys Asp Asp Gln Asp Gly
 645 650 655
 Ala Glu Pro Ser Ala Asn Ser Val Ser Ala His Asn Leu Leu Arg Leu
 660 665 670
 His Gly Phe Thr Gly His Lys Asp Trp Met Asp Lys Cys Val Cys Leu
 675 680 685
 Leu Thr Ala Phe Ser Glu Arg Met Arg Arg Val Pro Val Ala Leu Pro
 690 695 700
 Glu Met Val Arg Ala Leu Ser Ala Gln Gln Gln Thr Leu Lys Gln Ile
 705 710 715 720
 Val Ile Cys Gly Asp Arg Gln Ala Lys Asp Thr Lys Ala Leu Val Gln
 725 730 735

Cys Val His Ser Val Tyr Ile Pro Asn Lys Val Leu Ile Leu Ala Asp
 740 745 750
 Gly Asp Pro Ser Ser Phe Leu Ser Arg Gln Leu Pro Phe Leu Ser Thr
 755 760 765
 Leu Arg Arg Leu Glu Asp Gln Ala Thr Ala Tyr Val Cys Glu Asn Gln
 770 775 780
 Ala Cys Ser Val Pro Ile Thr Asp Pro Cys Glu Leu Arg Lys Leu Leu
 785 790 795 800
 His Pro

<210> 348
 <211> 331
 <212> PRT
 <213> Homo sapiens

<400> 348
 Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala Leu Ala Leu Val
 1 5 10 15
 Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln
 20 25 30
 Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp Lys Val Met
 35 40 45
 Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr
 50 55 60
 Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr
 65 70 75 80
 Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Leu Tyr
 85 90 95
 Pro Ala Leu Gln Pro Lys Glu Pro Pro Pro Ser Leu Leu Glu Ala Asp
 100 105 110
 Leu Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu
 115 120 125
 Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu
 130 135 140
 Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly
 145 150 155 160
 Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val
 165 170 175
 Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu

180					185					190					
Val	Val	Val	Lys	Glu	Val	Leu	Ala	Gly	Asp	Ser	Val	His	Ser	Leu	Leu
		195					200					205			
Ser	Ile	Leu	Asp	Ile	Ile	Thr	Gly	His	Ala	Ala	Pro	Tyr	Lys	Thr	Val
	210					215					220				
Ser	Val	Arg	Ala	Ala	Ile	Pro	Ser	Ser	Ile	Leu	Arg	Leu	Pro	Ala	Ala
225						230					235				240
Ala	Phe	His	Gly	Val	Phe	Glu	Lys	Tyr	Pro	Glu	Thr	Leu	Val	Arg	Val
				245					250					255	
Val	Gln	Ile	Ile	Met	Val	Arg	Leu	Gln	Arg	Val	Thr	Phe	Leu	Ala	Leu
			260					265					270		
His	Asn	Tyr	Leu	Gly	Leu	Thr	Thr	Glu	Leu	Phe	Asn	Ala	Glu	Ser	Gln
		275					280					285			
Ala	Ile	Pro	Leu	Val	Ser	Val	Ala	Ser	Val	Ala	Ala	Gly	Lys	Ala	Lys
	290					295					300				
Lys	Gln	Val	Phe	Tyr	Gly	Glu	Glu	Glu	Arg	Leu	Lys	Lys	Pro	Pro	Arg
305						310					315				320
Leu	Gln	Glu	Ser	Cys	Asp	Ser	Asp	His	Gly	Gly					
				325					330						

<210> 349
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 349
 Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
 1 5 10 15
 Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
 20 25 30
 Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
 35 40 45
 Phe His
 50

<210> 350
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 350
 Met Thr His Cys Leu Leu His Gly Met Gly Xaa Ala Gly Ala Ala Ser
 1 5 10 15
 Leu Thr Pro Lys Pro Met Ser Leu Ile Ser Ala Tyr Cys Gly Gly Leu
 20 25 30
 Trp Leu Ala Ala Val Ala Val Met Val Gln Met Aa Ala Leu Cys Gly
 35 40 45
 Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser Ile Leu Ser Arg Gly Gln
 50 55 60
 Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly Glu Phe Gly Glu Pro Lys
 65 70 75 80

<210> 351
 <211> 250
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 351
 Met Phe Leu Ala Thr Leu Ser Phe Leu Leu Pro Phe Ala His Pro Phe
 1 5 10 15
 Gly Thr Val Ser Cys Glu Tyr Met Leu Gly Ser Pro Leu Ser Ser Leu
 20 25 30
 Ala Gln Val Asn Leu Ser Pro Phe Ser His Pro Lys Val His Met Asp
 35 40 45
 Pro Asn Tyr Cys His Pro Ser Thr Ser Leu His Leu Cys Ser Leu Ala
 50 55 60
 Trp Ser Phe Thr Arg Leu Leu His Pro ProLeu Ser Pro Gly Ile Ser
 65 70 75 80
 Gln Val Val Lys Asp His Val Thr Lys Pro Thr Ala Met Ala Gln Gly
 85 90 95
 Arg Val Ala His Leu Ile Glu Trp LysGly Trp Ser Lys Pro Ser Asp
 100 105 110

Ser Xaa Ala Ala Leu Glu Ser Ala Phe Ser Ser Tyr Ser Asp Leu Ser
 115 120 125
 Glu Gly Glu Gln Glu Ala Arg Phe Ala Ala Gly ValAla Glu Gln Phe
 130 135 140
 Ala Ile Ala Glu Ala Lys Leu Arg Ala Trp Ser Ser Val Asp Gly Glu
 145 150 155 160
 Asp Ser Thr Asp Asp Ser Tyr Asp Glu Asp Phe Ala Gly GlyMet Asp
 165 170 175
 Thr Gly Glu Gly His Pro Gly Leu Gly Leu Trp Trp Thr His Leu Ile
 180 185 190
 Asp Leu Gly Ile Leu Ser Glu Pro His Pro Glu His Ser Gln ProLeu
 195 200 205
 Gln Gly Glu Gly Glu Gly Gln Thr Gln Ser Arg Gln Ala Trp Thr Leu
 210 215 220
 Gln Gly Gln Glu Gly Cys Pro His Ser Trp Val Gly Asn Glu Gln Thr
 225 230 235 240
 Glu Met Asp Ser Phe Leu Ser His Arg Cys
 245 250

<210> 352
 <211> 309
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (178)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (262)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (308)

<223> Xaa equals any of the naturally occurring amino acids

<400> 352

Met	Phe	Thr	Ile	Lys	Leu	Leu	Leu	Phe	Ile	Val	Pro	Leu	Val	Ile	Ser	
1				5				10						15		
Ser	Arg	Ile	Asp	Gln	Asp	Asn	Ser	Ser	Phe	Asp	Ser	Leu	Ser	Pro	Glu	
			20				25					30				
Pro	Lys	Ser	Arg	Phe	Ala	Met	Leu	Asp	Asp	Val	Lys	Ile	Leu	Ala	Asn	
		35					40					45				
Gly	Leu	Leu	Gln	Leu	Gly	His	Gly	Leu	Lys	Asp	Phe	Val	His	Lys	Thr	
	50					55					60					
Lys	Gly	Gln	Ile	Asn	Asp	Ile	Phe	Gln	Lys	Leu	Asn	Ile	Phe	Asp	Gln	
	65				70					75					80	
Ser	Phe	Tyr	Asp	Leu	Ser	Leu	Gln	Thr	Ser	Glu	Ile	Lys	Glu	Glu	Glu	
				85					90					95		
Lys	Glu	Leu	Arg	Arg	Thr	Thr	Tyr	Lys	Leu	Gln	Val	Lys	Asn	Glu	Glu	
			100					105					110			
Val	Lys	Asn	Met	Ser	Leu	Glu	Leu	Asn	Ser	Lys	Leu	Glu	Ser	Leu	Leu	
		115					120					125				
Xaa	Glu	Lys	Ile	Leu	Leu	Gln	Gln	Lys	Val	Lys	Tyr	Leu	Glu	Glu	Gln	
	130					135					140					
Leu	Thr	Asn	Leu	Ile	Gln	Asn	Gln	Pro	Glu	Thr	Pro	Glu	His	Pro	Glu	
	145				150					155					160	
Val	Thr	Ser	Leu	Lys	Thr	Phe	Val	Glu	Lys	Gln	Asp	Asn	Ser	Ile	Lys	
				165					170					175		
Asp	Xaa	Leu	Gln	Thr	Val	Glu	Asp	Gln	Tyr	Xaa	Gln	Leu	Asn	Gln	Gln	
			180					185					190			
His	Ser	Gln	Ile	Lys	Glu	Ile	Glu	Asn	Gln	Leu	Arg	Arg	Thr	Ser	Ile	
		195					200					205				
Gln	Glu	Pro	Thr	Glu	Ile	Ser	Leu	Ser	Ser	Lys	Pro	Arg	Ala	Pro	Arg	
	210					215					220					
Thr	Thr	Pro	Phe	Leu	Gln	Leu	Asn	Glu	Ile	Arg	Asn	Val	Lys	His	Asp	
	225				230					235					240	
Gly	Ile	Pro	Ala	Glu	Cys	Thr	Thr	Ile	Tyr	Asn	Arg	Gly	Glu	His	Thr	
				245					250					255		
Ser	Gly	Met	Tyr	Ala	Xaa	Arg	Pro	Ser	Asn	Ser	Gln	Val	Phe	His	Val	
			260					265					270			
Tyr	Cys	Asp	Val	Ile	Ser	Gly	Ser	Pro	Trp	Thr	Leu	Ile	Gln	His	Arg	
		275					280					285				

Ile Asp Gly Ser Gln Asn Phe Asn Glu Thr Trp Glu Asn Tyr Lys Tyr
 290 295 300

Gly Phe Gly Xaa Ala
 305

<210> 353
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 353
 Met Cys Leu Ser Leu Thr Ser Ile His Ile His Pro Thr Ser Leu Leu
 1 5 10 15
 Leu Gln Ser Phe Ile Val Ile Phe Ser Leu Met Leu Glu Ser Phe Ad
 20 25 30
 Phe Ser Ser Cys Ser His Cys Leu Lys Phe Cys Glu Leu Leu Arg Lys
 35 40 45
 Ser Leu Val Lys Val
 50

<210> 354
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 354
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
 1 5 10 15
 Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
 20 25 30
 Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
 35 40 45
 Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys
 50 55 60
 Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe Arg Leu Leu Trp Pro
 65 70 75 80
 Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe Val Leu Gly Leu Leu Ser
 85 90 95
 Gly Phe Leu Val Trp Arg Arg Cys Arg Arg Arg Glu Lys Phe Thr Thr
 100 105 110
 Pro Ile Glu Glu Thr Gly Gly Glu Gly Cys Pro Ala Val Ala Leu Ile
 115 120 125

Gln

<210> 355
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring amino acids

<400> 355
Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu LeuLeu Ala Ala
1 5 10 15
Leu Val Xaa Pro Ala Xaa Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
20 25 30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys GlyGly Met
35 40 45
Thr Ala Glu Pro Pro Lys Gly Glu Xaa Arg Leu Ser Ser Arg Arg Thr
50 55 60
Phe His Ser Ile Thr Xaa Trp
65 70

<210> 356
<211> 153
<212> PRT
<213> Homo sapiens

<400> 356
Met Ala Ala Thr Gln Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys
1 5 10 15

Phe Val Leu Val Leu Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser
 20 25 30
 Ser Gly Ser Gln Thr Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val
 35 40 45
 Tyr Thr Ala Ser Gln Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp
 50 55 60
 Gly Ala Gly Leu Trp Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu
 65 70 75 80
 Pro Pro Asp Gly Trp Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg
 85 90 95
 Pro Arg Asp His Leu Gln His Asp His Leu Asp Ser Thr His Glu Thr
 100 105 110
 Thr Lys Tyr Leu Ser Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr
 115 120 125
 Ser Pro Asp Phe Ser His Ser Lys Glu Trp Phe His Asp Arg Asp Leu
 130 135 140
 Gly Pro Asn Thr Thr Ile Lys Leu Ser
 145 150

<210> 357
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 357
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
 1 5 10 15
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
 20 25 30
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
 35 40 45
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
 50 55 60
 Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
 65 70 75 80
 Ala Glu Ser Ala Leu Leu Gly
 85

<210> 358

<211> 60
 <212> PRT
 <213> Homo sapiens

<400> 358
 Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn
 1 5 10 15
 Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser
 20 25 30
 Thr Cys Ser Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser
 35 40 45
 Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr
 50 55 60

<210> 359
 <211> 352
 <212> PRT
 <213> Homo sapiens

<400> 359
 Met Leu Cys Arg Leu Cys Trp Leu Val Ser Tyr Ser Leu Ala Val Leu
 1 5 10 15
 Leu Leu Gly Cys Leu Leu Phe Leu Arg Lys Ala Ala Lys Pro Ala Glu
 20 25 30
 Thr Pro Arg Pro Thr Ser Leu Ser Gly Ala Pro Pro Thr Pro Arg His
 35 40 45
 Ser Arg Cys Pro Pro Asn His Thr Val Ser Ser Ala Ser Leu Ser Leu
 50 55 60
 Pro Ser Arg His Arg Leu Phe Leu Thr Tyr Arg His Cys Arg Asn Phe
 65 70 75 80
 Ser Ile Leu Leu Glu Pro Ser Gly Cys Ser Lys Asp Thr Phe Leu Leu
 85 90 95
 Leu Ala Ile Lys Ser Gln Pro Gly His Val Glu Arg Arg Ala Ala Ile
 100 105 110
 Arg Ser Thr Trp Gly Arg Trp Gly Asp Gly Leu Gly Pro Ala Leu Lys
 115 120 125
 Leu Val Phe Leu Leu Gly Val Ala Gly Ser Ala Pro Pro Ala Gln Leu
 130 135 140
 Leu Ala Tyr Glu Ser Arg Glu Phe Asp Asp Ile Leu Gln Trp Asp Phe
 145 150 155 160
 Thr Glu Asp Phe Phe Asn Leu Thr Leu Lys Glu Leu His Leu Gln Arg
 165 170 175

Trp Val Val Ala Ala Cys Pro Gln Ala His Phe Met Leu Lys Gly Asp
 180 185 190
 Asp Asp Val Phe Val His Val Pro Asn Val Leu Glu Phe Leu Asp Gly
 195 200 205
 Trp Asp Pro Ala Gln Asp Leu Leu Val Gly Asp Val Ile Arg Gln Ala
 210 215 220
 Leu Pro Asn Arg Asn Thr Lys Val Lys Tyr Phe Ile Pro Pro Ser Met
 225 230 235 240
 Tyr Arg Ala Thr His Tyr Pro Pro Tyr Ala Gly Gly Gly Gly Tyr Val
 245 250 255
 Met Ser Arg Ala Thr Val Arg Arg Leu Gln Ala Ile Met Glu Asp Ala
 260 265 270
 Glu Leu Phe Pro Ile Asp Asp Val Phe Val Gly Met Cys Leu Arg Arg
 275 280 285
 Leu Gly Leu Ser Pro Met His His Ala Gly Phe Lys Thr Phe Gly Ile
 290 295 300
 Arg Arg Pro Leu Asp Pro Leu Asp Pro Cys Leu Tyr Arg Gly Leu Leu
 305 310 315 320
 Leu Val His Arg Leu Ser Pro Leu Glu Met Trp Thr Met Trp Ala Leu
 325 330 335
 Val Thr Asp Glu Gly Leu Lys Cys Ala Ala Gly Pro Ile Pro Gln Arg
 340 345 350

<210> 360
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 360
 Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala
 1 5 10 15
 Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
 20 25 30
 Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly
 35 40 45

<210> 361

<211> 74
 <212> PRT
 <213> Homo sapiens

<400> 361
 Met Val Leu Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro
 1 5 10 15
 Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile
 20 25 30
 Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala
 35 40 45
 Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu
 50 55 60
 Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser
 65 70

<210> 362
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 362
 Met Thr Ile His Ala Leu Leu Val Tyr Ala Cys Asn Ser Lys Cys Leu
 1 5 10 15
 Trp Phe Ser Ile Ser His Leu His Phe Cys Leu Val Thr Leu Leu Ile
 20 25 30
 Leu Thr Asn Met Thr Glu Ser Ser Phe Ser Leu Lys Gly
 35 40 45

<210> 363
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 363
 Met Ser Lys Ala Arg Phe Pro Phe Leu Ala Phe Pro Pro Leu Val Leu
 1 5 10 15
 Cys Leu Glu His Ser Gln Ala Ser Leu Gly Thr Arg Leu Pro Val Val
 20 25 30
 Thr Pro Ser Ser Leu Pro Ser Ser Cys Lys Gly Ile Gly Cys Gly Phe
 35 40 45
 Leu Glu Leu Gly
 50

<210> 364
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 364
 Met Trp Pro Ser Gln Val Pro Leu Leu Ala Phe Cys Phe Leu Leu Val
 1 5 10 15
 Lys Ser Thr Ser Asn Ile Asn Leu Pro Thr Pro Pro Pro Ser Ser Leu
 20 25 30
 Glu Asn Ser Ser Phe Val Val Ser Gln Arg Gly Asn Leu Ile Val Phe
 35 40 45
 Gly Gly Gln Lys Lys Ala Thr Phe Arg Tyr His Phe Tyr Leu Asp Arg
 50 55 60
 Met Pro Phe Tyr Ser Gln Ile Ser Val Tyr Phe Val Asn Gly Phe Arg
 65 70 75 80
 Val Asn Gly Tyr Leu Cys Asn Asn
 85

<210> 365
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 365
 Met Leu Trp Thr Leu Thr Phe Phe Leu Leu Gln Arg Ser Leu Thr Ser
 1 5 10 15
 Pro Trp Leu Phe Gly Leu Leu Phe Leu Gly Ser Ser Asn Thr Ala Val
 20 25 30
 Cys Cys Phe Leu Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg Gly
 35 40 45
 Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn Val
 50 55 60
 Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro Arg
 65 70 75 80
 Val Pro Val Val Arg Leu Ser Gly Arg Ser Leu Gly Trp Leu Ser Val
 85 90 95
 Arg Thr Ser His Leu Ile Leu Met Gly Leu Cys Lys Ile Leu Ser Val
 100 105 110
 Lys Leu Thr Phe Phe His Asp Ser Glu Tyr Thr Leu Ile Ile Gly Asn
 115 120 125

Trp Lys Ile
130

<210> 366
<211> 46
<212> PRT
<213> Homo sapiens

<400> 366
Met Leu Ser Pro Leu Asn His Leu Tyr Phe Pro Phe Arg Phe Leu Cys
1 5 10 15
Met Leu Cys Ser Leu Pro Arg Val Val Phe Gln Leu Thr Pro Ile Lys
20 25 30
Glu Ala Phe Pro Ser Gln Glu Leu Thr Phe Pro Cys Thr His
35 40 45

<210> 367
<211> 87
<212> PRT
<213> Homo sapiens

<400> 367
Met Ala Asp Pro His Val Ser Phe Leu Ser Phe Arg Gln Leu Phe Ser
1 5 10 15
Trp Ala Ala Val Ile Leu Leu Arg Gly Ile Leu Gly Thr Val Ala Pro
20 25 30
Pro Pro Cys Pro Cys Val Leu Asp Leu Ala Val Tyr Pro Leu His Leu
35 40 45
Pro Val Glu Ala Pro Cys Leu Glu Val Val Phe Lys Gln Lys Asn Gly
50 55 60
Lys Asp Asn Cys Leu Val Phe Tyr Pro Asp Pro Ile Pro Leu Arg Gly
65 70 75 80
Ser Leu Leu Gly Pro Phe Ile
85

<210> 368
<211> 34
<212> PRT
<213> Homo sapiens

<400> 368
Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp
1 5 10 15

Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln
20 25 30

Glu Lys

<210> 369
<211> 41
<212> PRT
<213> Homo sapiens

<400> 369
Met Val Lys Val Gly Ala Trp Arg Ala Val Gln Ile Leu Met LeuPhe
1 5 10 15
Ala Asn Pro Gly His Ala Glu Gly Ala Cys Ile Ser Pro Gly Pro Ala
20 25 30
Gly Lys Arg Glu Pro Leu Lys Leu Gly
35 40

<210> 370
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring amino acids

<400> 370
Met Leu Ile Tyr Trp Leu Gln Ser Ser Phe Ile Leu Ser Ala Phe Val
1 5 10 15
Leu Ile Asn Ser Pro Val Thr Thr Gly Ile Gln Lys Ser Cys Cys Lys
20 25 30
Phe Phe Pro Val Ser Ile Asn Leu Cys Phe Ala Ser Leu His Arg Met
35 40 45
Lys Val Val Thr Leu Val Ala Leu Gln Trp Leu Asn Ile Ala Leu Arg
50 55 60
Ser Xaa Leu Glu Glu Val Gln Gln Ala Ala Asp Gly Met Thr Ile Lys
65 70 75 80
Gly Ser Lys Val Gln Val Ser Phe Cys Ala Pro Gly Ala Pro Gly Arg
85 90 95
Ser Thr Leu Ala Ala Leu Ile Ala Ala Gln Arg Val Met His Ser Asn
100 105 110

Gln Lys Gly Leu Leu Pro Glu Pro Asn Pro Val Gln Ile Met Lys Ser
115 120 125

Leu Asn Asn Pro Ala Met Leu Gln Val Leu Leu Gln Ala Pro Ser Tyr
130 135 140

Val Asp Glu Leu Leu Asn Gln Pro Phe Leu Glu His Leu Thr Ala Cys
145 150 155 160

His Ile

<210> 371
<211> 377
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring amino acids

<400> 371
Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
1 5 10 15

Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
20 25 30

Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
35 40 45

Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
50 55 60

Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
65 70 75 80

Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
85 90 95

Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
100 105 110

Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
115 120 125

Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
130 135 140

Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
 145 150 155 160
 Ile Lys Trp Xaa Ser Arg Trp Asp Thr Tyr Leu Thr Met Ser Asp Val
 165 170 175
 Gln Ile His Trp Phe Ser Ile Ile Asn Ser Val Val Val Val Phe Phe
 180 185 190
 Leu Ser Gly Ile Leu Ser Met Ile Ile Ile Arg Thr Leu Arg Lys Asp
 195 200 205
 Ile Ala Asn Tyr Xaa Lys Glu Asp Asp Ile Glu Asp Thr Met Glu Glu
 210 215 220
 Ser Gly Trp Lys Leu Val His Gly Asp Val Phe Arg Pro Pro Pro Val
 225 230 235 240
 Pro His Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu
 245 250 255
 Tyr Asp Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala
 260 265 270
 Leu Gln Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val
 275 280 285
 His Gly Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe
 290 295 300
 Lys Arg Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val
 305 310 315 320
 Pro Trp Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu
 325 330 335
 Gly Lys Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser
 340 345 350
 Ala Val His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu
 355 360 365
 Leu Leu Arg Leu Pro Lys Ala Ala Ile
 370 375

<210> 372
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 372
 Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser
 1 5 10 15

Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr
 20 25 30
 Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr
 35 40 45
 Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe
 50 55 60
 Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro
 65 70 75 80
 Ala Val Ile Ser

<210> 373
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (28)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 373
 Met Leu Phe Leu Val Phe Ser Leu Xaa Leu Leu Lys Pro Leu Xaa Phe
 1 5 10 15
 Phe Xaa Phe Gly Gly Xaa Arg Ile Val Asn Ile Xaa Xaa Xaa Gln Xaa
 20 25 30
 Gln His His Ala Glu Gly Lys Xaa Gly Ser
 35 40

<210> 374
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 374
 Met Asn Arg Ser Thr Arg Ser Tyr Arg Cys Trp Ala Thr Trp Pro Arg
 1 5 10 15
 Leu Gly Trp Ala Leu Pro Cys Cys Met Asn Ser Leu Arg Lys Gly Arg
 20 25 30
 Lys Phe Ser Gln Ile Thr Thr Ser Leu Met Ala Ser Val Ser Ser Ala
 35 40 45
 Ser Met Val Ser Arg Arg Arg Arg Pro Leu Pro Lys His Pro Val Thr
 50 55 60
 Thr Thr Ser Thr Ala Thr Ala Leu Leu Gly Thr Ser Ser Thr Trp Ser
 65 70 75 80
 Lys Ser

<210> 375
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 375
 Met Val Phe Leu Leu Leu Leu Leu Phe Gly Phe Phe Phe Asp Gly Ser
 1 5 10 15

Leu Arg Ser Pro Leu Leu Leu Ile Ile His Leu Gly Pro Ala Pro Thr
 20 25 30

Phe Leu Gln Ile
 35

<210> 376

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring amino acids

<400> 376

Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu
 1 5 10 15

Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro
 20 25 30

Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Thr Ser
 35 40 45

Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala
 50 55 60

Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly
 65 70 75 80

Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly
 85 90 95

Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu
 100 105 110

<210> 377

<211> 44

<212> PRT

<213> Homo sapiens

<400> 377

Met Leu Phe Phe Cys Leu Leu Met Lys Met Leu Gly Pro Ser Arg Leu
 1 5 10 15

Pro Phe Leu Ala Leu Thr Leu Cys Arg Phe Ile Leu Tyr Phe Gln Phe
 20 25 30

Cys Tyr Leu Ile Ser Asp Ser Ser Pro Asp His Ser
 35 40

<210> 378
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 378
 Met Ser His Cys Thr Trp Pro Val Cys Leu Phe Cys Leu ~~Al~~ Pro Pro
 1 5 10 15
 Pro Met Gly Asp Leu Lys Glu Val Cys Leu Pro His Arg Cys Pro Gly
 20 25 30
 Arg Thr Ala Cys Cys Ser Tyr Ser Glu Pro His Leu Gln Thr ~~Eu~~ Glu
 35 40 45
 Asp Arg Arg Thr Leu Ile Cys
 50 55

<210> 379
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 379
 Met Leu Pro Leu Met Thr Tyr Ile Ile Gln Tyr Ile Tyr Thr Tyr Ile
 1 5 10 15
 Xaa Xaa Val Arg Val Leu Ala Ile Leu Phe Leu Arg Arg Val Leu Ser
 20 25 30
 Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe
 35 40 45

<210> 380
 <211> 51

<212> PRT

<213> Homo sapiens

<400> 380

Met Trp Trp Trp Leu Met Leu Ala Thr Thr Ala Leu Lys Pro Ile Ala
1 5 10 15
Thr Ser Ser Ser Cys Thr Glu Ala Leu Pro Gly Leu Trp Arg Asp Arg
20 25 30
His Trp Gly Asp Trp Thr Arg Gly Ser Gly Trp Glu Val Gly Gln Thr
35 40 45
Trp Gln His
50

<210> 381

<211> 176

<212> PRT

<213> Homo sapiens

<400> 381

Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro
1 5 10 15
Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr
20 25 30
Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg
35 40 45
Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val
50 55 60
Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg
65 70 75 80
Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly
85 90 95
Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu
100 105 110
Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr
115 120 125
Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro
130 135 140
Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg
145 150 155 160
Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser
165 170 175

<210> 382
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 382
 Met Thr Phe Leu Leu Gln Trp Phe Pro Leu Gly Arg Ala Arg Val Val
 1 5 10 15
 Gly Asp Leu Cys Gly Phe Ser Thr Gln Ile His Pro Gly Val Ser Arg
 20 25 30
 Ala Gly Met Ala Asp Leu Glu Ser Pro Pro Phe Pro Arg Thr Cys Ser
 35 40 45
 Val Pro Arg Ala Ala Asn Lys Gly
 50 55

<210> 383
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 383
 Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu
 1 5 10 15
 Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu
 20 25 30
 Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser
 35 40

<210> 384
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 384
 Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe
 1 5 10 15
 Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
 20 25 30
 Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly
 35 40 45

<210> 385
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 385
 Met Lys Leu Ser Gly Met Phe Leu Leu Leu Ser Leu Ala Leu Phe Cys
 1 5 10 15
 Phe Leu Thr Gly Val Phe Ser Gln Gly Gly Gln Val Asp Cys Gly Glu
 20 25 30
 Phe Gln Asp Thr Lys Val Tyr Cys Thr Arg Glu Ser Asn Pro His Cys
 35 40 45
 Gly Ser Asp Gly Gln Thr Tyr Gly Asn Lys Cys Ala Phe Cys Lys Ala
 50 55 60
 Ile Val Lys Ser Gly Gly Lys Ile Ser Leu Lys His Pro Gly Lys Cys
 65 70 75 80

<210> 386
 <211> 692
 <212> PRT
 <213> Homo sapiens

<400> 386
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
 20 25 30
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
 35 40 45
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
 50 55 60
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
 65 70 75 80
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
 85 90 95
 Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu
 100 105 110
 His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly
 115 120 125

Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu
 130 135 140
 Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg
 145 150 155 160
 Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly
 165 170 175
 Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp
 180 185 190
 His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val
 195 200 205
 Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp
 210 215 220
 Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly Arg Asp Ala Gly
 225 230 235 240
 Val Ala Lys Gly Ala Ser Met Arg Ser Leu Arg Val Leu Asn Cys Gln
 245 250 255
 Gly Lys Gly Thr Val Ser Gly Thr Leu Ile Gly Leu Glu Phe Ile Arg
 260 265 270
 Lys Ser Gln Leu Val Gln Pro Val Gly Pro Leu Val Val Leu Leu Pro
 275 280 285
 Leu Ala Gly Gly Tyr Ser Arg Val Leu Asn Ala Ala Cys Gln Arg Leu
 290 295 300
 Ala Arg Ala Gly Val Val Leu Val Thr AlaAla Gly Asn Phe Arg Asp
 305 310 315 320
 Asp Ala Cys Leu Tyr Ser Pro Ala Ser Ala Pro Glu Val Ile Thr Val
 325 330 335
 Gly Ala Thr Asn Ala Gln Asp Gln ProVal Thr Leu Gly Thr Leu Gly
 340 345 350
 Thr Asn Phe Gly Arg Cys Val Asp Leu Phe Ala Pro Gly Glu Asp Ile
 355 360 365
 Ile Gly Ala Ser Ser Asp Cys Ser Thr Cys Phe ValSer Gln Ser Gly
 370 375 380
 Thr Ser Gln Ala Ala Ala His Val Ala Gly Ile Ala Ala Met Met Leu
 385 390 395 400
 Ser Ala Glu Pro Glu Leu Thr Leu Ala Glu Leu Arg Gln ArgLeu Ile
 405 410 415
 His Phe Ser Ala Lys Asp Val Ile Asn Glu Ala Trp Phe Pro Glu Asp
 420 425 430

Gln Arg Val Leu Thr Pro Asn Leu Val Ala Ala Leu Pro Pro SerThr
 435 440 445
 His Gly Ala Gly Trp Gln Leu Phe Cys Arg Thr Val Trp Ser Ala His
 450 455 460
 Ser Gly Pro Thr Arg Met Ala Thr Ala Ile Ala Arg Cys Ala Pro Asp
 465 470 475 480
 Glu Glu Leu Leu Ser Cys Ser Ser Phe Ser Arg Ser Gly Lys Arg Arg
 485 490 495
 Gly Glu Arg Met Glu Ala Gln Gly Gly Lys Leu Val Cys Arg Ala His
 500 505 510
 Asn Ala Phe Gly Gly Glu Gly Val Tyr Ala Ile Ala Arg Cys Cys Leu
 515 520 525
 Leu Pro Gln Ala Asn Cys Ser Val His Thr Ala Pro Pro Ala Glu Ala
 530 535 540
 Ser Met Gly Thr Arg Val His Cys His Gln Gln Gly His Val Leu Thr
 545 550 555 560
 Gly Cys Ser Ser His Trp Glu Val Glu Asp Leu Gly Thr His Lys Pro
 565 570 575
 Pro Val Leu Arg Pro Arg Gly Gln Pro Asn Gln Cys Val Gly His Arg
 580 585 590
 Glu Ala Ser Ile His Ala Ser Cys Cys His Ala Pro Gly Leu Glu Cys
 595 600 605
 Lys Val Lys Glu His Gly Ile Pro Ala Pro Gln Glu Gln Val Thr Val
 610 615 620
 Ala Cys Glu Glu Gly Trp Thr Leu Thr Gly Cys Ser Ala Leu Pro Gly
 625 630 635 640
 Thr Ser His Val Leu Gly Ala Tyr Ala Val Asp Asn Thr Cys Val Val
 645 650 655
 Arg Ser Arg Asp Val Ser Thr Thr Gly Ser Thr Ser Glu Glu Ala Val
 660 665 670
 Thr Ala Val Ala Ile Cys Cys Arg Ser Arg His Leu Ala Gln Ala Ser
 675 680 685
 Gln Glu Leu Gln
 690

<210> 387
 <211> 275
 <212> PRT

<213> Homo sapiens

<400> 387

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Met Gly Asn Phe Arg Gly His Ala Leu Pro Gly Thr Phe Phe Phe Ile
  1           5           10           15

Ile Gly Leu Trp Trp Cys Thr Lys Ser Ile Leu Lys Tyr Ile Cys Lys
      20           25           30

Lys Gln Lys Arg Thr Cys Tyr Leu Gly Ser Lys Thr Leu Phe Tyr Arg
      35           40           45

Leu Glu Ile Leu Glu Gly Ile Thr Ile Val Gly Met Ala Leu Thr Gly
      50           55           60

Met Ala Gly Glu Gln Phe Ile Pro Gly Gly Pro His Leu Met Leu Tyr
      65           70           75           80

Asp Tyr Lys Gln Gly His Trp Asn Gln Leu Leu Gly Trp His His Phe
      85           90           95

Thr Met Tyr Phe Phe Phe Gly Leu Leu Gly Val Ala Asp Ile Leu Cys
      100           105           110

Phe Thr Ile Ser Ser Leu Pro Val Ser Leu Thr Lys Leu Met Leu Ser
      115           120           125

Asn Ala Leu Phe Val Glu Ala Phe Ile Phe Tyr Asn His Thr His Gly
      130           135           140

Arg Glu Met Leu Asp Ile Phe Val His Gln Leu Leu Val Leu Val Val
      145           150           155           160

Phe Leu Thr Gly Leu Val Ala Phe Leu Glu Phe Leu Val Arg Asn Asn
      165           170           175

Val Leu Leu Glu Leu Leu Arg Ser Ser Leu Ile Leu Leu Gln Gly Ser
      180           185           190

Trp Phe Phe Gln Ile Gly Phe Val Leu Tyr Pro Pro Ser Gly Gly Pro
      195           200           205

Ala Trp Asp Leu Met Asp His Glu Asn Ile Leu Phe Leu Thr Ile Cys
      210           215           220

Phe Cys Trp His Tyr Ala Val Thr Ile Val Ile Val Gly Met Asn Tyr
      225           230           235           240

Ala Phe Ile Thr Trp Leu Val Lys Ser Arg Leu Lys Arg Leu Cys Ser
      245           250           255

Ser Glu Val Gly Leu Leu Lys Asn Ala Glu Arg Glu Gln Glu Ser Glu
      260           265           270

Glu Glu Met
      275
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<210> 388
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 388
 Met Lys Pro Lys His Leu Glu Trp Cys Leu Ala His Ser Trp Cys Val
 1 5 10 3
 Ile Trp Leu Ser Phe Val Ser Pro Pro Thr Ser His Leu Glu Cys Asp
 20 25 30
 Gly Phe Pro Gly Ser Leu Leu Pro Pro Cys Glu Glu Gly Arg Cys Phe
 35 40 45
 Pro Phe Thr Phe His His His Asp Cys His Gly Cys Ser Pro Leu Gln
 50 55 60
 Ser Ser Pro Gly Gln His
 65 70

<210> 389
 <211> 222
 <212> PRT
 <213> Homo sapiens

<400> 389
 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
 1 5 10 15
 Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
 20 25 30
 Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
 35 40 45
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
 50 55 60
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys AsnVal Thr Gln Arg
 65 70 75 80
 Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
 85 90 95
 Pro Ala Val Glu Val Gln Ser Ala Ile Arg MetAsn Lys Asn Arg Ile
 100 105 110
 Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
 115 120 125
 Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro IleTrp Ile
 130 135 140

Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
 145 150 155 160
 Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
 165 170 175
 Ser Glu Val Asp Asp Ala Glu Asp Lys Cys Glu Asn Met Ile Thr Ile
 180 185 190
 Glu Asn Gly Ile Pro Ser Asp Pro Leu Asp Met Lys Gly Gly His Ile
 195 200 205
 Asn Asp Ala Phe Met Thr Glu Asp Glu Arg Leu Thr Pro Leu
 210 215 220

<210> 390
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 390
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15
 Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30
 Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
 35 40 45
 Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
 50 55 60
 Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
 65 70 75 80
 Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser
 85 90 95

<210> 391
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 391
 Met Thr Leu Tyr Ser Lys Leu Leu Trp Leu Phe Lys Gly Glu Leu Leu
 1 5 10 15
 Phe Pro Leu Val Leu Ala Tyr Val Leu Leu Leu Tyr Ile Val Thr Lys
 20 25 30
 Phe Asn Tyr Leu Ile Leu Lys Leu Phe Pro Asn Lys Ile Gln Ile Lys

35 40 45
 Arg Gly Ser Ile Ala Ser Asn Arg Ser Leu Glu Ser Ser Ala Ser Leu
 50 55 60
 Pro Ala Arg Lys Glu Glu Lys Leu Leu Lys Lys Phe
 65 70 75

<210> 392
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 392
 Met Leu Leu Ser Lys Glu His Thr Ser Leu Gly Trp Leu Val Ile Phe
 1 5 10 15
 Leu Thr Leu Ala Ser Gln Leu Ile Ser Tyr Gly Ser Arg Thr Gly Asn
 20 25 30
 Ser Arg Cys Pro Pro Cys Leu Tyr Arg Thr Leu His Thr Val Ser Thr
 35 40 45
 Ser His Val Leu Ser Ser Leu Phe Val Ser Thr Phe Ser Gly Asp Glu
 50 55 60
 Leu Val Trp Thr Thr
 65

<210> 393
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 393
 Met Arg Pro Leu Leu Leu Gly Gly Tyr Trp Val Leu Cys Leu Ser Val
 1 5 10 15
 Leu Gly His Ala Ala Leu Tyr His Phe Trp Leu Arg GluGlu Gly Lys
 20 25 30
 Gly Pro Pro Gln Val Xaa Ser Val Leu Ala Leu Ala Leu Pro Ala Gly
 35 40 45
 Ser Cys Ala Pro Gly Leu Pro Phe Pro Gly Pro Leu Ile Pro Thr Gln
 50 55 60
 Leu Leu Phe Ala Leu Glu Trp Gly Thr Pro Thr Pro Leu Arg Asp His

Gly Tyr Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Ser Lys Pro
 210 215 220
 Lys Val Asp Gly Leu Asp Asn Glu Arg Met Leu Tyr Ser Leu Glu Tyr
 225 230 235 240
 Lys Ile Pro Leu Leu Ser Leu Asn Leu Asp Gln Met Gly Ser Ile Pro
 245 250 255
 Pro Cys Gln His Lys Leu Ala Asp Thr Phe Asp Ser Thr Asp Glu Gly
 260 265 270
 Glu Gln Cys
 275

<210> 395
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 395
 Met Trp Leu Ser Pro Val Pro Gly Val Cys Ala Ala Val Leu Ala Leu
 1 5 10 15
 Ser Phe Trp Ile Ala Lys Phe Pro Gly Glu Gly Thr Ala Ile Ala Lys
 20 25 30
 Ala Leu Gly Arg Leu Lys
 35

<210> 396
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 396
 Met Trp Pro Cys Cys Leu Asp Ser Leu Leu Phe Gly Phe Trp Leu Trp
 1 5 10 15
 Ala Gln Gly Ile Thr Leu Leu Ser Glu Asp Ser Ile Arg Ile Val Cys
 20 25 30
 Ser Ser Cys Glu Pro Glu Val Leu His Val Pro Thr Pro Val Tyr Arg
 35 40 45
 Pro Cys Pro Ser His Ser Pro Leu Thr Phe
 50 55

<210> 397
 <211> 319

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (264)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (303)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 397
 Met Asn Thr Asp His Leu Arg Leu Thr Val Pro Asn Gly Ile Gly Ala
 1 5 10 15
 Leu Lys Leu Arg Glu Met Glu His Tyr Phe Ser Gln Gly Leu Ser Val
 20 25 30
 Gln Leu Phe Asn Asp Gly Ser Lys Gly Lys Leu Asn His Leu Cys Gly
 35 40 45
 Ala Asp Phe Val Lys Ser His Gln Lys Pro Pro Gln Gly Met Glu Ile
 50 55 60
 Lys Ser Asn Glu Arg Cys Cys Ser Phe Asp Gly Asp Ala Asp Arg Ile
 65 70 75 80
 Val Tyr Tyr Tyr His Asp Ala Asp Gly His Phe His Leu Ile Asp Gly
 85 90 95
 Asp Lys Ile Ala Thr Leu Ile Ser Ser Phe Leu Lys Glu Leu Leu Val
 100 105 110
 Glu Ile Gly Glu Ser Leu Asn Ile Gly Val Val Gln Thr Ala Tyr Ala
 115 120 125
 Asn Gly Ser Ser Thr Arg Tyr Leu Glu Glu Val Met Lys Val Pro Val
 130 135 140
 Tyr Cys Thr Lys Thr Gly Val Lys His Leu His His Lys Ala Gln Glu
 145 150 155 160
 Phe Asp Ile Gly Val Tyr Phe Glu Ala Asn Gly His Gly Thr Ala Leu
 165 170 175
 Phe Ser Thr Ala Val Glu Met Lys Ile Lys Gln Ser Ala Glu Gln Leu
 180 185 190
 Glu Asp Lys Lys Arg Lys Ala Ala Lys Met Leu Glu Asn Ile Ile Asp
 195 200 205
 Leu Phe Asn Gln Ala Ala Gly Asp Ala Ile Ser Asp Met Leu Val Ile
 210 215 220
 Glu Ala Ile Leu Ala Leu Lys Gly Leu Thr Val Gln Gln Trp Asp Ala

225 230 235 240
 Leu Tyr Thr Asp Leu Pro Asn Arg Gln Leu Lys Val Gln Val Ala Asp
 245 250 255
 Arg Arg Val Ile Ser Thr Thr Xaa Ala Glu Arg Gln Ala Val Thr Pro
 260 265 270
 Pro Gly Leu Gln Glu Ala Ile Asn Asp Leu Val Lys Lys Tyr Lys Leu
 275 280 285
 Ser Arg Ala Phe Val Arg Pro Ser Gly Thr Glu Asp Val Val Xaa Ser
 290 295 300
 Ile Cys Arg Ser Arg Leu Thr Arg Lys Cys Arg Ser Pro Cys Thr
 305 310 315

<210> 398
 <211> 278
 <212> PRT
 <213> Homo sapiens

<400> 398
 Met Gln Trp Leu Arg Val Arg Glu Ser Pro Gly Glu Ala Thr Gly His
 1 5 10 15
 Arg Val Thr Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu
 20 25 30
 Leu Leu Phe Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe
 35 40 45
 Asp Arg Ala Val Ala Ser Asp Cys Gln Arg Cys Cys Asp Ser Glu Asp
 50 55 60
 Pro Leu Asp Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro
 65 70 75 80
 His Ala Leu Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys
 85 90 95
 Gly Asp Lys Gly Asp Pro Gly Pro Met Gly Leu Pro Gly Tyr Met Gly
 100 105 110
 Arg Glu Gly Pro Gln Gly Glu Pro Gly Pro Gln Gly Ser Lys Gly Asp
 115 120 125
 Lys Gly Glu Met Gly Ser Pro Gly Ala Pro Cys Gln Lys Arg Phe Phe
 130 135 140
 Ala Phe Ser Val Gly Arg Lys Thr Ala Leu His Ser Gly Glu Asp Phe
 145 150 155 160
 Gln Thr Leu Leu Phe Glu Arg Val Phe Val Asn Leu Asp Gly Cys Phe
 165 170 175

Asp Met Ala Thr Gly Gln Phe Ala Ala Pro Leu Arg Gly Ile Tyr Phe
 180 185 190
 Phe Ser Leu Asn Val His Ser Trp Asn Tyr Lys Glu Thr Tyr Val His
 195 200 205
 Ile Met His Asn Gln Lys Glu Ala Val Ile Leu Tyr Ala Gln Pro Ser
 210 215 220
 Glu Arg Ser Ile Met Gln Ser Gln Ser Val Met Leu Asp Leu Ala Tyr
 225 230 235 240
 Gly Asp Arg Val Trp Val Arg Leu Phe Lys Arg Gln Arg Glu Asn Ala
 245 250 255
 Ile Tyr Ser Asn Asp Phe Asp Thr Tyr Ile Thr Phe Ser Gly His Leu
 260 265 270
 Ile Lys Ala Glu Asp Asp
 275

<210> 399
 <211> 338
 <212> PRT
 <213> Homo sapiens

<400> 399
 Met Arg Lys Pro Ala Ala Gly Phe Leu Pro Ser Leu Leu Lys Val Leu
 1 5 10 15
 Leu Leu Pro Leu Ala Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser
 20 25 30
 Thr Pro Gly Ser Pro Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala
 35 40 45
 Leu Leu Thr Pro Thr Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala
 50 55 60
 Thr His Gly Cys Arg Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu
 65 70 75 80
 Asn His Gly Leu Val Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr
 85 90 95
 Ala Ser Trp Phe Glu Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser
 100 105 110
 Asn His Val Tyr Tyr Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser
 115 120 125
 Ile Leu Ser Pro Asn Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val
 130 135 140

Ser Pro Thr Thr Met Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr
 145 150 155 160
 Glu Arg Gln Thr Phe Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val
 165 170 175
 Glu Glu Leu Leu Gln Ser Ser Leu Ser Leu Gly Ser Gln Glu Gln Ala
 180 185 190
 Pro Glu His Lys Gln Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr
 195 200 205
 Gln Glu His Lys Gln Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu
 210 215 220
 Glu Gln Glu Glu Glu Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu
 225 230 235 240
 Gly Arg Glu Ala Val Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe
 245 250 255
 His Ser Glu Ser Leu Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val
 260 265 270
 Arg Glu Val Glu Ser Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu
 275 280 285
 Ile Arg Ser Ala Gln Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu
 290 295 300
 Asn Ser Tyr Trp Arg Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro
 305 310 315 320
 His Thr Glu Pro Cys Trp Cys Cys Ala Ile Arg Ser Trp Arg Ile Pro
 325 330 335
 Ala Ser

<210> 400
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 400
 Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Pro Gln
 1 5 10 15
 Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp
 20 25 30
 Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro
 35 40 45
 Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser

50

55

<210> 401
<211> 47
<212> PRT
<213> Homo sapiens

<400> 401
Met Gln Ser Gly Arg Ser Trp Ala Leu Lys Met Val Leu Leu Cys Asn
1 5 10 15
Ser Cys Leu Gly Leu Gly Val Gly Ser Val Gly Pro Ser Met Ser Ser
20 25 30
Leu Phe Gly Ala Val Leu Ser Glu Thr Pro Gly Ser Ser Val Tyr
35 40 45

<210> 402
<211> 222
<212> PRT
<213> Homo sapiens

<400> 402
Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
1 5 10 15
Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
20 25 30
Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
35 40 45
Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
50 55 60
Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His
65 70 75 80
Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
85 90 95
Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
100 105 110
Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
115 120 125
Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
130 135 140
Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
145 150 155 160

Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
165 170 175

Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
180 185 190

Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
195 200 205

Thr Lys Ala Gln Lys Glu Lys Leu Arg Cys Glu Asn Asn Ala
210 215 220

<210> 403
<211> 88
<212> PRT
<213> Homo sapiens

<400> 403
Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His
1 5 10 15

Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val Ala Arg
20 25 30

Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val
35 40 45

Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala
50 55 60

Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His
65 70 75 80

Asp Ser Asn Gly Ile Leu Leu Leu
85

<210> 404
<211> 713
<212> PRT
<213> Homo sapiens

<400> 404
Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
1 5 10 15

His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
20 25 30

Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
35 40 45

Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
50 55 60

Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
 65 70 75 80
 Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
 85 90 95
 Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
 100 105 110
 Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Arg Ala Pro Met Gly Gln Gly
 115 120 125
 Phe Leu Leu Ser Tyr Ser Gln Asp Trp Leu Met Cys Leu Gln Glu Glu
 130 135 140
 Phe Gln Cys Leu Asn His Arg Cys Val Ser Ala Val Gln Arg Cys Asp
 145 150 155 160
 Gly Val Asp Ala Cys Gly Asp Gly Ser Asp Glu Ala Gly Cys Ser Ser
 165 170 175
 Asp Pro Phe Pro Gly Leu Thr Pro Arg Pro Val Pro Ser Leu Pro Cys
 180 185 190
 Asn Val Thr Leu Glu Asp Phe Tyr Gly Val Phe Ser Ser Pro Gly Tyr
 195 200 205
 Thr His Leu Ala Ser Val Ser His Pro Gln Ser Cys His Trp Leu Leu
 210 215 220
 Asp Pro His Asp Gly Arg Arg Leu Ala Val Arg Phe Thr Ala Leu Asp
 225 230 235 240
 Leu Gly Phe Gly Asp Ala Val His Val Tyr Asp Gly Pro Gly Pro Pro
 245 250 255
 Glu Ser Ser Arg Leu Leu Arg Ser Leu Thr His Phe Ser Asn Gly Lys
 260 265 270
 Ala Val Thr Val Glu Thr Leu Ser Gly Gln Ala Val Val Ser Tyr His
 275 280 285
 Thr Val Ala Trp Ser Asn Gly Arg Gly Phe Asn Ala Thr Tyr His Val
 290 295 300
 Arg Gly Tyr Cys Leu Pro Trp Asp Arg Pro Cys Gly Leu Gly Ser Gly
 305 310 315 320
 Leu Gly Ala Gly Glu Gly Leu Gly Glu Arg Cys Tyr Ser Glu Ala Gln
 325 330 335
 Arg Cys Asp Gly Ser Trp Asp Cys Ala Asp Gly Thr Asp Glu Glu Asp
 340 345 350
 Cys Pro Gly Cys Pro Pro Gly His Phe Pro Cys Gly Ala Ala Gly Thr
 355 360 365

Ser Gly Ala Thr Ala Cys Tyr Leu Pro Ala Asp Arg Cys Asn Tyr Gln
 370 375 380
 Thr Phe Cys Ala Asp Gly Ala Asp Glu Arg Arg Cys Arg His Cys Gln
 385 390 395 400
 Pro Gly Asn Phe Arg Cys Arg Asp Glu Lys Cys Val Tyr Glu Thr Trp
 405 410 415
 Val Cys Asp Gly Gln Pro Asp Cys Ala Asp Gly Ser Asp Glu Trp Asp
 420 425 430
 Cys Ser Tyr Val Leu Pro Arg Lys Val Ile Thr Ala Ala Val Ile Gly
 435 440 445
 Ser Leu Val Cys Gly Leu Leu Leu Val Ile Ala Leu Gly Cys Thr Cys
 450 455 460
 Lys Leu Tyr Ala Ile Arg Thr Gln Glu Tyr Ser Ile Phe Ala Pro Leu
 465 470 475 480
 Ser Arg Met Glu Ala Glu Ile Val Gln Gln Gln Ala Pro Pro Ser Tyr
 485 490 495
 Gly Gln Leu Ile Ala Gln Gly Ala Ile Pro Pro Val Glu Asp Phe Pro
 500 505 510
 Thr Glu Asn Pro Asn Asp Asn Ser Val Leu Gly Asn Leu Arg Ser Leu
 515 520 525
 Leu Gln Ile Leu Arg Gln Asp Met Thr Pro Gly Gly Gly Pro Gly Ala
 530 535 540
 Arg Arg Arg Gln Arg Gly Arg Leu Met Arg Arg Leu Val Arg Arg Leu
 545 550 555 560
 Arg Arg Trp Gly Leu Leu Pro Arg Thr Asn Thr Pro Ala Arg Ala Ser
 565 570 575
 Glu Ala Arg Ser Gln Val Thr Pro Ser Ala Ala Pro Leu Glu Ala Leu
 580 585 590
 Asp Gly Gly Thr Gly Pro Ala Arg Glu Gly Gly Ala Val Gly Gly Gln
 595 600 605
 Asp Gly Glu Gln Ala Pro Pro Leu Pro Ile Lys Ala Pro Leu Pro Ser
 610 615 620
 Ala Ser Thr Ser Pro Ala Pro Thr Thr Val Pro Glu Ala Pro Gly Pro
 625 630 635 640
 Leu Pro Ser Leu Pro Leu Glu Pro Ser Leu Leu Ser Gly Val Val Gln
 645 650 655
 Ala Leu Arg Gly Arg Leu Leu Pro Ser Leu Gly Pro Pro Gly Pro Thr
 660 665 670

Arg Ser Pro Pro Gly Pro His Thr Ala Val Leu Ala Leu Glu Asp Glu
675 680 685

Asp Asp Val Leu Leu Val Pro Leu Ala Glu Pro Gly Val Trp Val Ala
690 695 700

Glu Ala Glu Asp Glu Pro Leu Leu Thr
705 710

<210> 405
<211> 97
<212> PRT
<213> Homo sapiens

<400> 405
Met Ile Leu Leu Leu Ser Leu Phe Gln Gly Val Arg Gly Ser Leu Gly
1 5 10 15

Ser Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu
20 25 30

Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln
35 40 45

Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala
50 55 60

Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val
65 70 75 80

Asp Phe Ser Asn Leu Asp His Lys Glu Leu Gln Leu Ala Gly Ser Asn
85 90 95

Ser

<210> 406
<211> 49
<212> PRT
<213> Homo sapiens

<400> 406
Met Asn Val Phe Val Gly Pro Leu Ser Val Ala Ile Val Ile Phe Cys
1 5 10 15

Trp Ile Thr Met Tyr Trp Val Ser Ile Val Met Gly Gln Gly Arg Gly
20 25 30

Gln Tyr Thr Trp Arg Thr Ile Leu Ser Thr Ser Thr Pro Ser Val Cys
35 40 45

Ser

<210> 407
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 407
 Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr
 1 5 10 15
 Met Lys Leu Ser Gly His Arg Trp Ser Ser Cys Pro His His Cys
 20 25 30
 Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His
 35 40 45
 Thr Val
 50

<210> 408
 <211> 406
 <212> PRT
 <213> Homo sapiens

<400> 408
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
 1 5 10 15
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
 20 25 30
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
 35 40 45
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
 50 55 60
 His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
 65 70 75 80
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
 85 90 95
 Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
 100 105 110
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
 115 120 125
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
 130 135 140

Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
 145 150 155 160
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
 165 170 175
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
 180 185 190
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
 195 200 205
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
 210 215 220
 Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 225 230 235 240
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 245 250 255
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 260 265 270
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 275 280 285
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 290 295 300
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 305 310 315 320
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 325 330 335
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 340 345 350
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 355 360 365
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 370 375 380
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 385 390 395 400
 Arg Asp Arg Asp Glu Leu
 405

<210> 409
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 409

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Ala His Gln Lys
65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95

Leu Ile Ala Ser Thr Ala Val
100

<210> 410

<211> 49

<212> PRT

<213> Homo sapiens

<400> 410

Met Ala Pro Arg Asn Gln Gly Ser Phe Ser Phe Gly Asn Phe Met Leu
1 5 10 15

Phe Leu Val Leu Ile Glu Arg Arg Tyr Leu Pro Phe Leu Ser Pro Ile
20 25 30

Leu Phe Cys Cys Ser Thr His Asn Arg Ser Ala Val Thr Ala Thr Asn
35 40 45

Leu

<210> 411

<211> 73

<212> PRT

<213> Homo sapiens

<400> 411

Met His Ala Tyr Ala Cys Val Cys Ala Cys Met Leu Val Cys Val Cys
1 5 10 15

Val Cys Val Cys Arg Ala Leu Val Ile Pro Thr Glu Gln Arg His Arg
20 25 30

Arg Val Ala His Gly Arg Thr Ser Asp Ser Thr Leu Pro Cys Thr Val
35 40 45
Lys Ile Trp Pro Ser Glu Arg Gly Asp Gly Arg Gly Glu Arg Gly Glu
50 55 60
Arg Arg Arg Gly Thr Asp Trp Arg Gly
65 70

<210> 412
<211> 84
<212> PRT
<213> Homo sapiens

<400> 412
Met Val Trp Cys Gln Cys Leu Cys Pro Leu Cys Ala Cys Trp Glu Glu
1 5 10 15
Ala Gln Ala Leu Trp Trp Pro Pro Leu Cys Thr Trp Pro Gly Glu Ala
20 25 30
Arg Gly Ser Gly Ala Ser Leu Arg Leu Arg Pro Pro Leu Gln Asn Lys
35 40 45
Leu Ser Pro Gly Val Cys Leu Ser Leu Phe Leu Ser Pro Glu Arg Asn
50 55 60
Ala Gly Val Pro Glu Ala Ser Leu Gln Thr Lys His Pro Cys Thr Ser
65 70 75 80
Tyr Gly Ser Gly

<210> 413
<211> 68
<212> PRT
<213> Homo sapiens

<400> 413
Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe
1 5 10 15
Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val
20 25 30
Leu Asp Gly Ser Cys Glu Ser Thr Val Leu Ser Asn Arg Ser Leu Ser
35 40 45
Leu Val Pro Ile Ile Val Tyr Ile Ala Gln Leu Pro Glu Phe Asp Ser
50 55 60
Ser Val Gln Arg
65

<210> 414
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 414
 Met Phe Ala Phe Val Ile Leu Val Phe Ile Thr Ser Met Trp Ala Gln
 1 5 10 15
 Thr Ile Ser Leu His Val Ser Ser Ser Glu Gu Val Ser Cys
 20 25 30

<210> 415
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 415
 Met Pro Leu Gln Leu Ser Gly Gln Tyr Trp Ile Ser Leu Leu Val Phe
 1 5 10 15
 Leu Ser Leu Gln Pro Phe Pro Gln Ala Ala Ile Pro Cys Ala Leu Thr
 20 25 30
 Asp Val Gly Gly Ser Cys Val Ile Cys His Ile Leu Leu Asn Cys Leu
 35 40 45
 Cys Ile Leu Phe Thr Leu Thr Ala Pro Ser Leu Ser His Val Leu Leu
 50 55 60
 Ile Lys Met Ser Leu Ser Val Cys Tyr Glu Pro Gly Ala Asp Leu Ser
 65 70 75 80
 Asp Arg Ala Ala Thr Gly Asn Lys Lys Leu Thr Arg Ser Thr Cys Leu
 85 90 95
 Leu Met His Ser Asn Lys Leu Cys
 100

<210> 416
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 416
 Met Thr Lys Arg Arg Lys Pro Arg Tyr Arg Phe Ile Phe Ala Leu Tyr
 1 5 10 15
 Ala Leu Arg Leu Val Phe Leu Phe Arg Ala Val Thr Asn Thr Asp Ala
 20 25 30

Ser Arg Leu Arg Ala Lys Arg Gly Glu Cys Pro Tyr
 35 40

<210> 417

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring amino acids

<400> 417

Met Val Ser Phe Val Gly Ile Cys Leu Leu Leu Gly Ser Phe Phe Ser
 1 5 10 15

Pro Ser Leu Gln Gly Thr Ile Trp His His Pro Ala Lys Pro Asp Gly
 20 25 30

Ser Gly His Gly Leu Pro Ser Phe Ala Val Ile Met Gly Lys Gln Val
 35 40 45

Val Pro Thr Val Tyr Trp Arg Met Pro Tyr Pro Arg Arg Gly Gly Pro
 50 55 60

Gly Thr Xaa Phe Ala Leu
 65 70

<210> 418

<211> 74

<212> PRT

<213> Homo sapiens

<400> 418

Met Thr Leu Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro
 1 5 10 15

Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp ValVal Val Tyr Ser
 20 25 30

Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn
 35 40 45

Val Tyr Ala Leu Ala Val Lys Lys Ser Val Cys Asn Val Ser GluTrp
 50 55 60

Ser Leu Val Ile Cys His Pro Met Pro Ile
 65 70

<210> 419
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 419
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro
 1 5 10 15
 Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu
 20 25 30
 Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr
 35 40 45
 Arg Pro Ile Pro Ser Phe Leu Lys Ile
 50 55

<210> 420
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 420
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser
 1 5 10 15
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly
 20 25 30
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu
 35 40 45
 Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu
 50 55 60
 Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu
 65 70 75 80

<210> 421
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 421
 Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr
 1 5 10 15
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn Cys Phe Asn Met
 20 25 30

Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg
 35 40 45
 Arg Ala Pro Thr Gly Pro Trp Leu Ala Cys Thr Tyr Arg Gln Ser Cys
 50 55 60
 Ser Gly His Leu Pro Ser Val Val Gly Leu Leu Leu Phe Arg Arg Tyr
 65 70 75 80
 Ser Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu
 85 90 95
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Ser Ser Gln
 100 105 110
 Arg Pro Ser
 115

<210> 422
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 422
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Asp Ile Gln Cys Cys Phe Ala Leu
 35 40 45
 Gln Leu Glu Arg Arg Asp Gly Gln Leu Val Thr Leu Ser His Ile Ala
 50 55 60
 Thr Phe Ile Cys Ser Gly Lys Lys Leu Asp Arg Trp
 65 70 75

<210> 423
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 423
 Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gly Ser Ala Arg Cys His
 1 5 10 15
 His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu Lys Thr
 20 25 30
 Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Leu Pro Gly Pro Gly

35 40 45
 Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala
 50 55 60
 Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro
 65 70 75 80
 Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro
 85 90 95
 Phe Cys Phe Thr Leu Ser Thr Glu
 100

<210> 424
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 424
 Met Met Thr Phe Phe Gly Ser His Ile Leu Leu Phe Leu Phe Cys Pro
 1 5 10 15
 Leu Lys Ala Gly His Arg His Leu Val Ser Ser Ser Phe Leu Thr Val
 20 25 30
 Ala Val Ser Ile Ser Lys Gly Pro Phe Phe His Ser Thr Ala Gln Lys
 35 40 45
 Arg Lys Ser Arg Lys Gln Leu Pro Arg Pro Ala Phe Leu Val Pro Leu
 50 55 60
 Ser Ser Gln Asn Thr Gln Thr Arg Thr Lys His His Phe Ser Phe Leu
 65 70 75 80
 His Leu Ile Val Leu Gln Pro
 85

<210> 425
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 425
 Met Val Cys Phe Tyr Ala Leu Leu Leu Cys Phe Leu Ser Ser Val Glu
 1 5 10 15
 Ile Gly Pro Leu Ser Trp Leu Leu Cys Leu Ser His Ile Lys Cys His
 20 25 30
 Phe Thr Ala Leu Pro Phe Glu Ala
 35 40

<210> 426
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 426
 Gly Thr Arg Leu Pro Thr Asn Val Arg Gly Ile Met Val Trp Phe Ser
 1 5 10 15
 Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile Leu Gly Ala Arg Gly
 20 25 30
 Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg His Cys Gly Leu Val
 35 40 45
 Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala Asp Val Leu Ala Val
 50 55 60
 His Ser Gly Gln Val Ser His Ser Pro Glu Pro Gln Arg Leu Tyr Gln
 65 70 75 80
 Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro His Gly Val Val Ser
 85 90 95
 Ala Val Asn Glu Ile Met Tyr Met Lys His Leu Val Tyr Leu Ala Pro
 100 105 110
 Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr Asn Lys Met Glu Leu
 115 120 125
 Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg Gln Ile Leu Gly Val
 130 135 140
 Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro Ser Leu Phe Gly
 145 150 155

<210> 427
 <211> 333
 <212> PRT
 <213> Homo sapiens

<400> 427
 Met Ser Pro Trp Ser Trp Phe Leu Leu Gln Thr Leu Cys Leu Leu Pro
 1 5 10 15
 Thr Gly Ala Ala Ser Arg Arg Gly Ala Pro Gly Thr Ala Asn Cys Glu
 20 25 30
 Leu Lys Pro Gln Gln Ser Glu Leu Asn Ser Phe Leu Trp Thr Ile Lys
 35 40 45
 Arg Asp Pro Pro Ser Tyr Phe Phe Gly Thr Ile His Val Pro Tyr Thr
 50 55 60

Arg Val Trp Asp Phe Ile Pro Asp Asn Ser Lys Glu Ala Phe Leu Gln
 65 70 75 80
 Ser Ser Ile Val Tyr Phe Glu Leu Asp Leu Thr Asp Pro Tyr Thr Ile
 85 90 95
 Ser Ala Leu Thr Ser Cys Gln Met Leu Pro Gln Gly Glu Asn Leu Gln
 100 105 110
 Asp Val Leu Pro Arg Asp Ile Tyr Cys Arg Leu Lys Arg His Leu Glu
 115 120 125
 Tyr Val Lys Leu Met Met Pro Leu Trp Met Thr Pro Asp Gln Arg Gly
 130 135 140
 Lys Gly Leu Tyr Ala Asp Tyr Leu Phe Asn Ala Ile Ala Gly Asn Trp
 145 150 155 160
 Glu Arg Lys Arg Pro Val Trp Val Met Leu Met Val Asn Ser Leu Thr
 165 170 175
 Glu Val Asp Ile Lys Ser Arg Gly Val Pro Val Leu Asp Leu Phe Leu
 180 185 190
 Ala Gln Glu Ala Glu Arg Leu Arg Lys Gln Thr Gly Ala Val Glu Lys
 195 200 205
 Val Glu Glu Gln Cys His Pro Leu Asn Gly Leu Asn Phe Ser Gln Val
 210 215 220
 Ile Phe Ala Leu Asn Gln Thr Leu Leu Gln Gln Glu Ser Leu Arg Ala
 225 230 235 240
 Gly Ser Leu Gln Ile Pro Tyr Thr Thr Glu Asp Leu Ile Lys His Tyr
 245 250 255
 Asn Cys Gly Asp Leu Ser Ser Val Ile Leu Ser His Asp Ser Ser Gln
 260 265 270
 Val Pro Asn Phe Ile Asn Ala Thr Leu Pro Pro Gln Glu Arg Ile Thr
 275 280 285
 Ala Gln Glu Ile Asp Ser Tyr Leu Arg Arg Glu Leu Ile Tyr Lys Arg
 290 295 300
 Asn Glu Arg Ile Gly Lys Arg Val Lys Ala Leu Leu Glu Glu Phe Pro
 305 310 315 320
 Asp Lys Gly Phe Phe Phe Ala Phe Gly Ala Ala Ser Gln
 325 330

<210> 428
 <211> 226
 <212> PRT

<213> Homo sapiens

<400> 428

Met Glu Thr Val Val Ile Val Ala Ile Gly Val Leu Ala Thr Ile Phe
1 5 10 15
Leu Ala Ser Phe Ala Ala Leu Val Leu Val Cys Arg Gln Arg Tyr Cys
20 25 30
Arg Pro Arg Asp Leu Leu Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp
35 40 45
Leu Ile Gly Ala Met Glu Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu
50 55 60
Asp Asp Val Val Ile Thr Asn Pro His Ile Glu Ala Ile Leu Glu Asn
65 70 75 80
Glu Asp Trp Ile Glu Asp Ala Ser Gly Leu Met Ser His Cys Ile Ala
85 90 95
Ile Leu Lys Ile Cys His Thr Leu Thr Glu Lys Leu Val Ala Met Thr
100 105 110
Met Gly Ser Gly Ala Lys Met Lys Thr Ser Ala Ser Val Ser Asp Ile
115 120 125
Ile Val Val Ala Lys Arg Ile Ser Pro Arg Val Asp Asp Val Val Lys
130 135 140
Ser Met Tyr Pro Pro Leu Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr
145 150 155 160
Ala Leu Leu Leu Ser Val Ser His Leu Val Leu Val Thr Arg Asn Ala
165 170 175
Cys His Leu Thr Gly Gly Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala
180 185 190
Ala Glu Glu His Leu Glu Val Leu Arg Glu Ala Ala Leu Ala Ser Glu
195 200 205
Pro Asp Lys Gly Leu Pro Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser
210 215 220
Ala Ile
225

<210> 429

<211> 404

<212> PRT

<213> Homo sapiens

<400> 429

Met Arg Leu Gln Asp Val Tyr Met Leu Asn Val Lys Gly Leu Ala Arg

1	5	10	15
Gly Val Phe Gln Arg Val Thr Gly Ser Ala Ile Thr Asp Leu Tyr Ser	20	25	30
Pro Lys Arg Leu Phe Ser Leu Thr Gly Asp Asp Cys Phe Gln Val Gly	35	40	45
Lys Val Ala Tyr Asp Met Gly Asp Tyr Tyr His Ala Ile Pro Trp Leu	50	55	60
Glu Glu Ala Val Ser Leu Phe Arg Gly Ser Tyr Gly Glu Trp Lys Thr	65	70	75
Glu Asp Glu Ala Ser Leu Glu Asp Ala Leu Asp His Leu Ala Phe Ala	85	90	95
Tyr Phe Arg Ala Gly Asn Val Ser Cys Ala Leu Ser Leu Ser Arg Glu	100	105	110
Phe Leu Leu Tyr Ser Pro Asp Asn Lys Arg Met Ala Arg Asn Val Leu	115	120	125
Lys Tyr Glu Arg Leu Leu Ala Glu Ser Pro Asn His Val Val Ala Glu	130	135	140
Ala Val Ile Gln Arg Pro Asn Ile Pro His Leu Gln Thr Arg Asp Thr	145	150	155
Tyr Glu Gly Leu Cys Gln Thr Leu Gly Ser Gln Pro Thr Leu Tyr Gln	165	170	175
Ile Pro Ser Leu Tyr Cys Ser Tyr Glu Thr Asn Ser Asn Ala Tyr Leu	180	185	190
Leu Leu Gln Pro Ile Arg Lys Glu Val Ile His Leu Glu Pro Tyr Ile	195	200	205
Ala Leu Tyr His Asp Phe Val Ser Asp Ser Glu Ala Gln Lys Ile Arg	210	215	220
Glu Leu Ala Glu Pro Trp Leu Gln Arg Ser Val Val Ala Ser Gly Glu	225	230	235
Lys Gln Leu Gln Val Glu Tyr Arg Ile Ser Lys Ser Ala Trp Leu Lys	245	250	255
Asp Thr Val Asp Leu Lys Leu Val Thr Leu Asn His Arg Ile Ala Ala	260	265	270
Leu Thr Gly Leu Asp Val Arg Pro Pro Tyr Ala Glu Tyr Leu Gln Val	275	280	285
Val Asn Tyr Gly Ile Gly Gly His Tyr Glu Pro His Phe Asp His Ala	290	295	300
Thr Ser Pro Ser Ser Pro Leu Tyr Arg Met Lys Ser Gly Asn Arg Val			

305 310 315 320
 Ala Thr Phe Met Ile Tyr Leu Ser Ser Val Glu Ala Gly GlyAla Thr
 325 330 335
 Ala Phe Ile Tyr Ala Asn Leu Ser Val Pro Val Val Arg Asn Ala Ala
 340 345 350
 Leu Phe Trp Trp Asn Leu His Arg Ser Gly Glu Gly Asp Ser AspThr
 355 360 365
 Leu His Ala Gly Cys Pro Val Leu Val Gly Asp Lys Trp Val Ala Asn
 370 375 380
 Lys Trp Ile His Glu Tyr Gly Gln Glu Phe Arg Arg Pro Cys Ser Ser
 385 390 395 400
 Ser Pro Glu Asp

<210> 430
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 430
 Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe
 1 5 10 15
 Ser Ser Val Thr Leu Tyr His Arg Val His His Gln Xaa Val Phe Ser
 20 25 30
 Gln Glu Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile
 35 40 45
 Cys Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile
 50 55 60
 Pro Val Leu Arg Tyr Ala Ser Ile Glu
 65 70

<210> 431
 <211> 627
 <212> PRT
 <213> Homo sapiens

<400> 431
 Met Glu Ala Arg Val Val His Ala Leu Gln Lys Arg Gln Val Ser Leu

1	5	10	15
Leu Cys Val Phe	Leu Gly Val Ser Trp	Ala Gly Ala Glu Pro	Leu Arg
20	25	30	
Tyr Phe Val Ala	Glu Glu Thr Glu Arg	Gly Thr Phe Leu	Ala Asn Leu
35	40	45	
Ala Ile Asp Leu	Gly Leu Gly Val Glu Glu	Leu Ser Ala Arg	Gly Cys
50	55	60	
Arg Ile Val Ser	Asp Glu Thr Ile Gly Phe	Leu Leu Leu Asn Pro	Leu
65	70	75	80
Thr Gly Asp Leu	Leu Leu Asn Glu Lys Leu	Asp Arg Glu Leu	Cys
85	90	95	
Gly Pro Thr Glu	Pro Cys Val Leu Pro Phe	Gln Leu Leu Leu	Glu Lys
100	105	110	
Pro Phe Gln Ile	Phe Arg Ala Glu Leu Trp	Val Arg Asp Ile	Asn Asp
115	120	125	
His Ser Pro Val	Phe Leu Asp Arg Glu Ile	Thr Leu Asn Ile	Leu Glu
130	135	140	
Ser Thr Thr Pro	Gly Ala Thr Phe Leu Leu	Glu Ser Ala His	Asp Ser
145	150	155	160
Asp Val Gly Ile	Asn Asn Leu Arg Asn Tyr	Thr Thr Ile Ser	Ser Asn Val
165	170	175	
Tyr Phe His Ile	Asn Val His Asp Asn Gly	Glu Gly Asn Val	Tyr Ser
180	185	190	
Glu Leu Val Leu	Asp Lys Val Leu Asp Arg	Glu Glu Val Pro	Glu Leu
195	200	205	
Arg Leu Thr Leu	Thr Gly Leu Asp Gly Gly	Ser Pro Pro Arg	Ser Gly
210	215	220	
Thr Thr Leu Ile	Arg Ile Leu Val Leu Asp	Ile Asn Asp Asn	Val Pro
225	230	235	240
Glu Phe Val Glu	Ser Leu Tyr Lys Val Gln	Val Pro Glu Asn	Ser Pro
245	250	255	
Val Gly Ser Leu	Val Val Thr Val Ser Ala	Arg Asp Leu Asp	Thr Gly
260	265	270	
Ser Asn Gly Glu	Ile Val Tyr Ala Phe Phe	Tyr Ala Thr Glu	Arg Thr
275	280	285	
Leu Lys Thr Phe	Arg Ile Asn Ser Thr Ser	Gly Asn Leu His	Leu Lys
290	295	300	
Ala Glu Leu Asn	Tyr Glu Ala Ile Gln Thr	Tyr Thr Leu Thr	Ile Gln

305		310		315		320
Ala Lys Asp Gly	Gly Gly Leu Ser Gly	Lys Cys Thr Val Val Val His				
	325	330				335
Val Thr Asp Ile	Asn Asp Asn Pro Pro	Glu Leu Leu Met Ser Ser Leu				
	340	345			350	
Thr Ser Pro Ile	Pro Glu Asn Ser Pro	Glu Thr Val Val Ala Val Phe				
	355	360			365	
Arg Ile Arg Asp	Arg Asp Ser Gly Asn Asn Ala	Lys Met Val Cys Ser				
	370	375			380	
Ile Gln Asp His	Leu Pro Phe Val Leu Lys	Pro Ser Val Glu Asn Phe				
	385	390			395	400
Tyr Thr Leu Val	Thr Glu Arg Ala Leu Asp	Arg Glu Glu Arg Thr Glu				
	405	410			415	
Tyr Asn Ile Thr	Ile Thr Val Thr Asp	Leu Gly Thr Pro Arg Leu Lys				
	420	425			430	
Thr Gln His Asn	Leu Thr Val Thr Val	Ser Asp Val Asn Asp Asn Ala				
	435	440			445	
Pro Thr Phe Ser	Gln Thr Thr Tyr Thr	Leu Arg Val Arg Glu Asn Asn				
	450	455			460	
Ser Pro Ala Leu	His Ile Gly Ser Val	Ser Ala Thr Asp Arg Asp Ser				
	465	470			475	480
Gly Ala Asn Ala	Gln Val Thr Tyr Ser	Leu Leu Pro Pro His Asp Pro				
	485	490			495	
Gln Leu Pro Leu	Gly Ser Leu Val Ser	Ile Asn Ala Asp Asn Gly Gln				
	500	505			510	
Leu Phe Ala Leu	Arg Ser Leu Asp	Phe Glu Ala Leu Gln Ala Phe Glu				
	515	520			525	
Phe Arg Val Gly	Ala Ala Asp Arg Gly	Ser Pro Ala Leu Ser Ser Gln				
	530	535			540	
Ala Leu Val Arg	Val Leu Val Ala Asp	Ala Asn Asp An Ala Pro Phe				
	545	550			555	560
Val Leu Tyr Pro	Leu Gln Asn Gly Ser	Ala Pro Cys Thr Glu Leu Val				
	565	570			575	
Pro Arg Ala Ala	Glu Ala Gly Tyr Leu	Val Ala Lys Val Val Ala Val				
	580	585			590	
Asp Gly Asp Ser	Gly Gln Asn Ala Trp	Leu Ser Tyr Gln Leu Leu Lys				
	595	600			605	
Ala Thr Glu Pro	Gly Leu Phe Gly Val	Trp Ala His Asn Gly Eu Val				

610 615 620
 Arg Thr Ala
 625

 <210> 432
 <211> 363
 <212> PRT
 <213> Homo sapiens

 <400> 432
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys
 115 120 125
 Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn
 130 135 140
 Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
 145 150 155 160
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
 165 170 175
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
 180 185 190
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
 195 200 205
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe
 210 215 220
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
 225 230 235 240

Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala
 245 250 255
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
 260 265 270
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
 275 280 285
 Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
 290 295 300
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
 305 310 315 320
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
 325 330 335
 Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
 340 345 350
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
 355 360

<210> 433
 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 433
 Met Ala Ala Ala Met Pro Leu Ala Leu Leu Val Leu Leu Leu Leu Gly
 1 5 10 15
 Pro Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu
 20 25 30
 Glu Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe
 35 40 45
 Gln Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser
 50 55 60
 His Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr
 65 70 75 80
 Ser Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr
 85 90 95
 Arg Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asn His
 100 105 110
 Tyr Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu
 115 120 125

Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys	Ser	Ser	Lys	Ala	Gly	130	135	140
Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu	Phe	His	Thr	Ser	Tyr	His	145	150	155
Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val	Cys	Arg	Asn	Ala	Arg	Cys	Thr	165	170	175
Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln	Thr	Leu	Ser	Val	Val	Phe	Asp	Ala	180	185	190
Phe	Ile	Thr	Gly	Gln	Gly	Lys	Lys	Asp	Trp	Ser	Leu	Phe	Arg	Met	Phe	195	200	205
Ser	Arg	Thr	Leu	Thr	Glu	Pro	Cys	Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val	210	215	220
Tyr	Val	Asp	Ile	Thr	Thr	Tyr	Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val	225	230	235
His	Pro	Pro	Pro	Thr	Thr	Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg	245	250	255
Lys	Thr	Tyr	Ala	Ile	Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn	260	265	270
Ser	Arg	Asn	Leu	Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn	275	280	285
Glu	Ala	Pro	Pro	Val	Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly	290	295	300
Tyr	Gly	Leu	Gln	Lys	Gly	Glu	Leu	Ser	Thr	Leu	Leu	Tyr	Asn	Thr	His	305	310	315
Pro	Tyr	Arg	Ala	Phe	Pro	Val	Leu	Leu	Leu	Asp	Thr	Val	Pro	Trp	Tyr	325	330	335
Leu	Arg	Leu	Tyr	Val	His	Thr	Leu	Thr	Ile	Thr	Ser	Lys	Gly	Lys	Glu	340	345	350
Asn	Lys	Pro	Ser	Tyr	Ile	His	Tyr	Gln	Pro	Ala	Gln	Asp	Arg	Leu	Gln	355	360	365
Pro	His	Leu	Leu	Glu	Met	Leu	Ile	Gln	Leu	Pro	Ala	Asn	Ser	Val	Thr	370	375	380
Lys	Val	Ser	Ile	Gln	Phe	Glu	Arg	Ala	Leu	Leu	Lys	Trp	Thr	Glu	Tyr	385	390	395
Thr	Pro	Asp	Pro	Asn	His	Gly	Phe	Tyr	Val	Ser	Pro	Ser	Val	Leu	Ser	405	410	415
Ala	Leu	Val	Pro	Ser	Met	Val	Ala	Ala	Lys	Pro	Val	Asp	Trp	Glu	Glu	420	425	430

Ser Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr
 435 440 445
 Phe Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro
 450 455 460
 Asp Phe Ser Met Pro Tyr Asn Val IleCys Leu Thr Cys Thr Val Val
 465 470 475 480
 Ala Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe His
 485 490 495
 Ile Glu Glu Pro Arg Thr Gly GlyLeu Ala Lys Arg Leu Ala Asn Leu
 500 505 510
 Ile Arg Arg Ala Arg Gly Val Pro Pro Leu
 515 520

<210> 434
 <211> 453
 <212> PRT
 <213> Homo sapiens

<400> 434
 Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met Val Ile
 1 5 10 15
 Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg
 20 25 30
 Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly Phe
 35 40 45
 Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala
 50 55 60
 Phe Met Ile Ile Leu Ser Ile Leu Glu ValIle Ile Ile Leu Leu Leu
 65 70 75 80
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu
 85 90 95
 Ala Ser Arg Ala Val Gly Tyr Val MetCys Ser Leu Leu Tyr Pro Leu
 100 105 110
 Val Thr Phe Phe Leu Leu Cys Leu Cys Ile Ala Tyr Trp Ala Ser Thr
 115 120 125
 Ala Val Phe Leu Ser Thr Ser Asn Glu Ala Val TyrLys Ile Phe Asp
 130 135 140
 Asp Ser Pro Cys Pro Phe Thr Ala Lys Thr Cys Asn Pro Glu Thr Phe
 145 150 155 160
 Pro Ser Ser Asn Glu Ser Arg Gln Cys Pro Asn Ala Arg CysGln Phe

165										170					175				
Ala	Phe	Tyr	Gly	Gly	Glu	Ser	Gly	Tyr	His	Arg	Ala	Leu	Leu	Gly	Leu				
			180					185					190						
Gln	Ile	Phe	Asn	Ala	Phe	Met	Phe	Phe	Trp	Leu	Ala	Asn	Phe	Val	Leu				
		195					200					205							
Ala	Leu	Gly	Gln	Val	Thr	Leu	Ala	Gly	Ala	Phe	Ala	Ser	Tyr	Tyr	Trp				
	210					215					220								
Ala	Leu	Arg	Lys	Pro	Asp	Asp	Leu	Pro	Ala	Phe	Pro	Leu	Phe	Ser	Ala				
225					230					235					240				
Phe	Gly	Arg	Ala	Leu	Arg	Tyr	His	Thr	Gly	Ser	Leu	Ala	Phe	Gly	Ala				
				245					250					255					
Leu	Ile	Leu	Ala	Ile	Val	Gln	Ile	Ile	Arg	Val	Ile	Leu	Glu	Tyr	Leu				
			260					265					270						
Asp	Gln	Arg	Leu	Lys	Ala	Ala	Glu	Asn	Lys	Phe	Ala	Lys	Cys	Leu	Met				
		275					280					285							
Thr	Cys	Leu	Lys	Cys	Cys	Phe	Trp	Cys	Leu	Glu	Lys	Phe	Ile	Lys	Phe				
	290					295					300								
Leu	Asn	Arg	Asn	Ala	Tyr	Ile	Met	Ile	Ala	Ile	Tyr	Gly	Thr	Asn	Phe				
305					310					315					320				
Cys	Thr	Ser	Ala	Arg	Asn	Ala	Phe	Phe	Leu	Leu	Met	Arg	Asn	Ile	Ile				
				325					330					335					
Arg	Val	Ala	Val	Leu	Asp	Lys	Val	Thr	Asp	Phe	Leu	Phe	Leu	Leu	Gly				
			340					345					350						
Lys	Leu	Leu	Ile	Val	Gly	Ser	Val	Gly	Ile	Leu	Ala	Phe	Phe	Phe	Phe				
	355						360					365							
Thr	His	Arg	Ile	Arg	Ile	Val	Gln	Asp	Thr	Ala	Pro	Pro	Leu	Asn	Tyr				
	370				375						380								
Tyr	Trp	Val	Pro	Ile	Leu	Thr	Val	Ile	Val	Gly	Ser	Tyr	Leu	Ile	Ala				
385					390					395					400				
His	Gly	Phe	Phe	Ser	Val	Tyr	Gly	Met	Cys	Val	Asp	Thr	Leu	Phe	Leu				
				405				410						415					
Cys	Phe	Leu	Glu	Asp	Leu	Glu	Arg	Asn	Asp	Gly	Ser	Ala	Glu	Arg	Pro				
			420					425					430						
Tyr	Phe	Met	Ser	Ser	Thr	Leu	Lys	Lys	Leu	Leu	Asn	Lys	Thr	Asn	Lys				
		435					440					445							
Lys	Ala	Ala	Glu	Ser															
	450																		

<210> 435
 <211> 967
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (169)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (293)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (297)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (547)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 435
 Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser
 1 5 10 15
 Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro
 20 25 30
 Val Pro Thr Leu Leu Leu Leu Xaa Ala Ala Leu Leu Xaa Val Ser Asp
 35 40 45
 Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu
 50 55 60
 Leu Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala
 65 70 75 80
 Phe Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu
 85 90 95
 Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu
 100 105 110

Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr
 115 120 125
 Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly
 130 135 140
 Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro
 145 150 155 160
 Leu Pro Ala Ala Ser Glu Arg Leu Xaa Thr Ala Ala Pro Gly Glu Lys
 165 170 175
 Pro Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly
 180 185 190
 Asp Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr
 195 200 205
 Gly Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp
 210 215 220
 Glu Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly
 225 230 235 240
 Gln Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser
 245 250 255
 His Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu
 260 265 270
 Phe His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val
 275 280 285
 Ala Ala Arg Leu Xaa Lys His Pro Xaa Ile Arg Asn Ser Val Ser Leu
 290 295 300
 Val Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu
 305 310 315 320
 Val Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln
 325 330 335
 Lys Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr
 340 345 350
 Ala Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp
 355 360 365
 Thr Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser
 370 375 380
 Cys Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Asa
 385 390 395 400
 His Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln
 405 410 415

Cys Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Aa Ser
 420 425 430
 Met Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala
 435 440 445
 Tyr Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met
 450 455 460
 Asp Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr
 465 470 475 480
 Ser Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser
 485 490 495
 Lys His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr
 500 505 510
 Gly Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp
 515 520 525
 Ala Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys
 530 535 540
 Cys Val Xaa Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly
 545 550 555 560
 Ser Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly
 565 570 575
 Gly Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys
 580 585 590
 Asn Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys
 595 600 605
 Asn Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu
 610 615 620
 Gln Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly
 625 630 635 640
 Pro Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp
 645 650 655
 Arg Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val
 660 665 670
 Leu Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr
 675 680 685
 Ser Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile
 690 695 700
 Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn
 705 710 715 720

Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro
 725 730 735
 Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu
 740 745 750
 Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu
 755 760 765
 Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr
 770 775 780
 Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg
 785 790 795 800
 Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro
 805 810 815
 Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu
 820 825 830
 Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser
 835 840 845
 Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly
 850 855 860
 Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu
 865 870 875 880
 Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val
 885 890 895
 Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp
 900 905 910
 Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr
 915 920 925
 Lys Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser
 930 935 940
 His Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe
 945 950 955 960
 Cys Thr Met Ala Glu Cys Ser
 965

<210> 436
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 436

Met Tyr Val Arg Phe Phe Phe Arg Leu His Ser Ile Ser Ser His Pro
 1 5 10 15
 Ser Gly Ile Val Ser Leu Cys Leu Leu Phe Glu Thr Leu Leu Gln Thr
 20 25 30
 Tyr Leu Pro Gln Leu Phe Tyr His Leu Arg Glu Ile Gly Ala Gln Pro
 35 40 45
 Leu Arg Ile Ser Phe Lys Trp Met Val Arg Ala Phe Ser Gly Tyr Leu
 50 55 60
 Ala Thr Asp Gln Leu Leu Leu Trp Asp Arg Ile Leu Gly Tyr Asn
 65 70 75 80
 Ser Leu Glu Ile Leu Ala Val Leu Ala Ala Val Phe Ala Phe Arg
 85 90 95
 Ala Val Asn Leu Met Glu Val Thr Ser Leu Ala Ala Ala Glu Asn Leu
 100 105 110
 Ala Ala His Ser Glu Gln Phe Cys Thr Ala Pro Leu Phe Pro Glu Leu
 115 120 125
 Tyr Arg Val Gln Ile Pro Val Leu Leu Asn Ser Gly Arg Lys Lys Ser
 130 135 140
 Ala Val Tyr Trp Thr Pro Ile Ser Phe Asn Arg Thr Lys Lys Leu Arg
 145 150 155 160
 Leu Gln Gly Arg Thr Tyr Asn Asp Gly Ser Trp Asn Ile Thr
 165 170

<210> 437

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring amino acids

<400> 437

Met Gln Pro Ala Trp Leu Trp Leu Trp Xaa Trp Glu Leu Gly Trp Glu

1	5	10	15
Leu Val Phe Gly Ala Ile Leu Leu Xaa LeuGln Asp Gly Leu Phe Asp	20	25	30
Ser Val Leu Tyr Cys Xaa His Leu Tyr Ser Gly Leu Phe Phe Pro Trp	35	40	45
Ile Val Asn Ser Leu Met Ser Gly Ser Ser Gln Leu MetSer	50	55	60

<210> 438
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 438
Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
1 5 10 15
Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
20 25 30
Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
35 40 45

<210> 439
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 439
Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
1 5 10 15
Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
20 25 30
Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
35 40 45
Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
50 55 60
Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
65 70 75 80
Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
85 90 95

Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125
 Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160
 Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro
 165 170

<210> 440
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 440
 Met Ile Gly Leu Thr Ile Ile Ala Cys Phe Ala Val Ile Val Ser Ala
 1 5 10 15
 Lys Arg Ala Val Glu Arg His Glu Ser Leu Thr Ser Trp Asn Leu Ala
 20 25 30
 Lys Lys Ala Lys Xaa Arg Glu Glu Ala Ala Leu Ala Ala Gln Ala Lys
 35 40 45
 Ala Asn Asp Ile Leu Ser Asp Lys Val Phe Thr
 50 55

<210> 441
 <211> 387
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (228)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (359)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 441

Met	Gly	Ala	Phe	Leu	Asp	Lys	Pro	Lys	Thr	Glu	Lys	His	Asn	Ala	His
1				5					10					15	
Gly	Ala	Gly	Asn	Gly	Leu	Arg	Tyr	Gly	Leu	Ser	Ser	Met	Gln	Gly	Trp
			20					25					30		
Arg	Val	Glu	Met	Glu	Asp	Ala	His	Thr	Ala	Val	Val	Gly	Ile	Pro	His
		35					40					45			
Gly	Leu	Glu	Asp	Trp	Ser	Phe	Phe	Ala	Val	Tyr	Asp	Gly	His	Ala	Gly
	50					55					60				
Ser	Arg	Val	Ala	Asn	Tyr	Cys	Ser	Thr	His	Leu	Leu	Glu	His	Ile	Thr
65					70					75					80
Thr	Asn	Glu	Asp	Phe	Arg	Ala	Ala	Gly	Lys	Ser	Gly	Ser	Ala	Leu	Glu
				85					90					95	
Leu	Ser	Val	Glu	Asn	Val	Lys	Asn	Gly	Ile	Arg	Thr	Gly	Phe	Leu	Lys
			100					105					110		
Ile	Asp	Glu	Tyr	Met	Arg	Asn	Phe	Ser	Asp	Leu	Arg	Asn	Gly	Met	Asp
	115						120					125			
Arg	Ser	Gly	Ser	Thr	Ala	Val	Gly	Val	Met	Ile	Ser	Pro	Lys	His	Ile
	130					135					140				
Tyr	Phe	Ile	Asn	Cys	Gly	Asp	Ser	Arg	Ala	Val	Leu	Tyr	Arg	Asn	Gly
145					150					155					160
Gln	Val	Cys	Phe	Ser	Thr	Gln	Asp	His	Lys	Pro	Cys	Asn	Pro	Arg	Glu
				165					170					175	
Lys	Glu	Arg	Ile	Gln	Asn	Ala	Gly	Gly	Ser	Val	Met	Ile	Gln	Arg	Val
			180					185					190		
Asn	Gly	Ser	Leu	Ala	Val	Ser	Arg	Ala	Leu	Gly	Asp	Tyr	Asp	Tyr	Lys
		195					200					205			
Cys	Val	Asp	Gly	Lys	Gly	Pro	Thr	Glu	Gln	Leu	Val	Ser	Pro	Glu	Pro
	210					215					220				
Glu	Val	Tyr	Xaa	Ile	Leu	Arg	Ala	Glu	Glu	Asp	Glu	Phe	Ile	Ile	Leu
225					230					235					240
Ala	Cys	Asp	Gly	Ile	Trp	Asp	Val	Met	Ser	Asn	Glu	Glu	Leu	Cys	Glu
				245					250					255	
Tyr	Val	Lys	Ser	Arg	Leu	Glu	Val	Ser	Asp	Asp	Leu	Glu	Asn	Val	Cys
			260					265					270		
Asn	Trp	Val	Val	Asp	Thr	Cys	Leu	His	Lys	Gly	Ser	Arg	Asp	Asn	Met
		275					280						285		
Ser	Ile	Val	Leu	Val	Cys	Phe	Ser	Asn	Ala	Pro	Lys	Val	Ser	Asp	Glu
	290					295					300				

Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val
 305 310 315 320

Glu Glu Ile Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala
 325 330 335

His Val Met Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro
 340 345 350

Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser
 355 360 365

Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu
 370 375 380

Asp Pro Trp
 385

<210> 442

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring amino acids

<400> 442

Met Asn Cys Asp Val Leu Trp Cys Val Leu Leu Leu Val Cys Xaa Ser
 1 5 10 15

Leu Phe Ser Ala Val Gly His Gly Leu Trp Ile Trp Arg Tyr Gln Glu
 20 25 30

Lys Lys Ser Leu Phe Tyr Val Pro Lys Ser Asp Gly Ser Ser Leu Ser
 35 40 45

Pro Val Thr Ala Ala Val Asn Ser Phe Leu Thr
 50 55

<210> 443

<211> 52

<212> PRT

<213> Homo sapiens

<400> 443

Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
 1 5 10 15

Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
 20 25 30

Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
 35 40 45

Gln Tyr Phe Pro
 50

<210> 444
 <211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 444
 Met Phe Gly Ala His Arg Xaa Trp Gln Gly Ser Val Leu Leu Phe Leu
 1 5 10 15

Ser Phe Ala Trp Gly Asn Gly Gly Ser Val Thr Phe Ser Asp Val Pro
 20 25 30

Arg Val Met Pro Leu Ala Gly Gly Pro Xaa Xaa Gln Val Ser Ser Thr
 35 40 45

Pro Arg Pro Pro Pro His Gln Val Thr Ser Ser Pro Gly Leu Glu Ser
 50 55 60

Ala His Ile Val Cys Pro Glu Arg Lys Lys Lys Lys Lys Lys
 65 70 75

<210> 445
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 445

Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser
1 5 10 15
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
20 25 30
Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln
35 40 45
Arg Arg Ser His Cys
50

<210> 446

<211> 83

<212> PRT

<213> Homo sapiens

<400> 446

Met Lys Lys Val Cys Trp Val Trp Ala Leu Ala His Leu Val Leu Cys
1 5 10 15
Glu Arg Trp Leu Thr Ala Gly Cys Leu Leu Tyr Val Gly Val Ile Gln
20 25 30
Pro Cys Lys Gly Ser Pro Ser Ser Val Cys Lys Ala Arg Arg Cys Leu
35 40 45
His Pro Lys Tyr Arg Ile Lys Arg Tyr Gly Tyr Tyr Lys Tyr Ser Val
50 55 60
Arg Leu Ile Ile Cys His His His Pro His Ala Leu Lys Ala Glu Leu
65 70 75 80
Thr Asp Asp

<210> 447

<211> 58

<212> PRT

<213> Homo sapiens

<400> 447

Met Pro Phe Ala Trp Asn Asp Leu Thr Ser Leu Leu Phe TyrLeu Ala
1 5 10 15
Gly Cys Phe Ser Ser Cys Arg Leu Gly Gln Gly Thr Pro Gly Ser Leu
20 25 30
Pro Trp Thr Ser Asn Glu Glu Gly Ile Ile Gln Gly Pro Thr ProMet
35 40 45
Phe Trp Asn Leu Thr Pro Phe Ser Gly Thr

50

55

<210> 448
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 448
 Met Val Tyr Arg Ala Phe Leu Ile Ile Ile Leu Arg Phe Ile Leu Ile
 1 5 10 15
 Phe Leu Phe Lys Leu Asn Tyr Ser Lys Leu Cys Pro Glu Ile Pro Phe
 20 25 30
 Gly Leu Lys Phe Phe Ser Phe Val Cys Ile Lys Val Gln Ile Lys Lys
 35 40 45
 Thr Ser Arg Lys Arg Arg Pro Tyr Leu
 50 55

<210> 449
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 449
 Met Cys Tyr Phe Leu Glu Ile Ser Leu Leu Met Val Phe AlaLeu Asn
 1 5 10 15
 Ile Lys Ala Ala Tyr Gly Cys Cys Asn Ile Asn Gly Thr Glu Val His
 20 25 30
 Arg Ala Lys Gly Pro Val Ser Val Pro Phe Pro Leu Ser Arg ProLeu
 35 40 45
 Ser Gly Thr Pro Leu Leu Asp Arg Leu Arg Pro Phe Gln Thr Leu
 50 55 60

<210> 450
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 450
 Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
 1 5 10 15
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
 20 25 30
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln

35 40 45
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
 50 55 60
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Asp
 65 70 75 80
 Val Asn Lys Pro Gln Gly Arg Ala Pro Ala Cys Leu Gln Val Gln Tyr
 85 90 95
 Asn Asp Ile Phe Lys Asn Arg Pro Ala Lys Val Phe Glu Phe Tyr Phe
 100 105 110
 Ile Gln Glu Asn Pro Gln Leu Phe Lys Leu
 115 120

<210> 451
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 451
 Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu Phe Arg
 1 5 / 10 15
 Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu Tyr Thr
 20 25 30
 Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro Lys Ile
 35 40 45
 Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val Thr Ala
 50 55 60
 Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Tp Met Pro Asp Ile Thr
 65 70 75 80
 Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His Ile Gly
 85 90 95
 Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro Glu Glu
 100 105 110
 Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro
 115 120 125
 Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu He Phe Ile Lys
 130 135 140
 Thr Lys Ala Glu Glu Lys Val Glu
 145 150

<210> 452
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 452
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Th Ala
 1 5 10 15
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Se
 35 40 45
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val
 115 120 125
 Arg Ile Leu Ala Thr Arg His
 130 135

<210> 453
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 453
 Met Ser Leu Gln Ser Arg Gly Ser Asn
 1 5

<210> 454
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 454
 Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met Ile Lys
 1 5 10 15
 Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys
 20 25 30

Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly
 35 40 45

Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe
 50 55 60

Phe Pro Leu Val Lys Ala Ala Lys
 65 70

<210> 455
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 455
 Met Glu Pro Glu Ser Trp Ala Leu Cys Leu Leu Leu Phe Leu Gly Thr
 1 5 10 15

Ala Leu Gly Tyr Pro Pro Leu Pro Arg His Ser Ser Lys Cys Glu Ile
 20 25 30

Leu Glu Val Arg Leu His Leu Leu Pro Leu Leu Ile Asn Ile Gly Met
 35 40 45

Met Ser Pro Val Ala Ser Pro Phe Val Cys Ser Ile Thr Gly
 50 55 60

<210> 456
 <211> 606
 <212> PRT
 <213> Homo sapiens

<400> 456
 Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Cys Gln Trp Leu Pro
 1 5 10 15

Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
 20 25 30

Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
 35 40 45

Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
 50 55 60

Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
 65 70 75 80

Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
 85 90 95

Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser

100					105					110					
Ser	Ala	Gln	Val	Glu	Gln	Leu	Arg	Gln	Ala	Ile	Glu	Glu	Leu	Tyr	Tyr
		115					120					125			
Phe	Glu	Phe	Val	Val	Asp	Asp	Leu	Pro	Ile	Arg	Gly	Phe	Val	Gly	Tyr
	130					135					140				
Met	Glu	Glu	Ser	Gly	Phe	Leu	Pro	His	Ser	His	Lys	Ile	Gly	Leu	Trp
145					150					155				160	
Thr	His	Leu	Asp	Phe	His	Leu	Glu	Phe	His	Gly	Asp	Arg	Ile	Ile	Phe
				165					170					175	
Ala	Asn	Val	Ser	Val	Arg	Asp	Val	Lys	Pro	His	Ser	Leu	Asp	Gly	Leu
			180					185					190		
Arg	Pro	Asp	Glu	Phe	Leu	Gly	Leu	Thr	His	Thr	Tyr	Ser	Val	Arg	Trp
		195					200					205			
Ser	Glu	Thr	Ser	Val	Glu	Arg	Arg	Ser	Asp	Arg	Arg	Arg	Gly	Asp	Asp
	210					215					220				
Gly	Gly	Phe	Phe	Pro	Arg	Thr	Leu	Glu	Ile	His	Trp	Leu	Ser	Ile	Ile
225					230					235					240
Asn	Ser	Met	Val	Leu	Val	Phe	Leu	Leu	Val	Gly	Phe	Val	Ala	Val	Ile
				245					250					255	
Leu	Met	Arg	Val	Leu	Arg	Asn	Asp	Leu	Ala	Arg	Tyr	Asn	Leu	Asp	Glu
			260					265					270		
Glu	Thr	Thr	Ser	Ala	Gly	Ser	Gly	Asp	Asp	Phe	Asp	Gln	Gly	Asp	Asn
		275					280					285			
Gly	Trp	Lys	Ile	Ile	His	Thr	Asp	Val	Phe	Arg	Phe	Pro	Pro	Tyr	Arg
	290					295					300				
Gly	Leu	Leu	Cys	Ala	Val	Leu	Gly	Val	Gly	Ala	Gln	Phe	Leu	Ala	Leu
305					310					315					320
Gly	Thr	Gly	Ile	Ile	Val	Met	Ala	Leu	Leu	Gly	Met	Phe	Asn	Val	His
				325					330					335	
Arg	His	Gly	Ala	Ile	Asn	Ser	Ala	Ala	Ile	Leu	Leu	Tyr	Ala	Leu	Thr
			340					345					350		
Cys	Cys	Ile	Ser	Gly	Tyr	Val	Ser	Ser	His	Phe	Tyr	Arg	Gln	Ile	Gly
		355					360					365			
Gly	Glu	Arg	Trp	Val	Trp	Asn	Ile	Ile	Leu	Thr	Thr	Ser	Leu	Phe	Ser
	370					375					380				
Val	Pro	Phe	Phe	Leu	Thr	Trp	Ser	Val	Val	Asn	Ser	Val	His	Trp	Ala
385					390					395					400
Asn	Gly	Ser	Thr	Gln	Ala	Leu	Pro	Ala	Thr	Thr	Ile	Leu	Leu	Leu	Leu

405										410										415									
Thr	Val	Trp	Leu	Leu	Val	Gly	Phe	Pro	Leu	Thr	Val	Ile	Gly	Gly	Ile														
			420					425					430																
Phe	Gly	Lys	Asn	Asn	Ala	Ser	Pro	Phe	Asp	Ala	Pro	Cys	Arg	Thr	Lys														
		435					440					445																	
Asn	Ile	Ala	Arg	Glu	Ile	Pro	Pro	Gln	Pro	Trp	Tyr	Lys	Ser	Thr	Val														
		450				455					460																		
Ile	His	Met	Thr	Val	Gly	Gly	Phe	Leu	Pro	Phe	Ser	Ala	Ile	Ser	Val														
		465			470					475					480														
Glu	Leu	Tyr	Tyr	Ile	Phe	Ala	Thr	Val	Trp	Gly	Arg	Glu	Gln	Tyr	Thr														
				485					490					495															
Leu	Tyr	Gly	Ile	Leu	Phe	Phe	Val	Phe	Ala	Ile	Leu	Leu	Ser	Val	Gly														
			500					505					510																
Ala	Cys	Ile	Ser	Ile	Ala	Leu	Thr	Tyr	Phe	Gln	Leu	Ser	Gly	Glu	Asp														
		515					520					525																	
Tyr	Arg	Trp	Trp	Trp	Arg	Ser	Val	Leu	Ser	Val	Gly	Ser	Thr	Gly	Leu														
		530				535					540																		
Phe	Ile	Phe	Leu	Tyr	Ser	Val	Phe	Tyr	Tyr	Ala	Arg	Arg	Ser	Asn	Met														
					550				555					560															
Ser	Gly	Ala	Val	Gln	Thr	Val	Glu	Phe	Phe	Gly	Tyr	Ser	Leu	Leu	Thr														
				565				570						575															
Gly	Tyr	Val	Phe	Phe	Leu	Met	Leu	Gly	Thr	Ile	Ser	Phe	Phe	Ser	Ser														
			580					585					590																
Leu	Lys	Phe	Ile	Arg	Tyr	Ile	Tyr	Val	Asn	Leu	Lys	Met	Asp																
		595					600					605																	

<210> 457
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 457
 Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
 1 5 10 15
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
 20 25 30
 Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg
 35 40 45
 Ala Arg Leu Gln Gly Ser Ala Thr Ala Ala Glu Ala Ser Leu Leu Arg
 50 55 60

Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu
 65 70 75 80
 Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu Arg Pro Ala Ser Met
 85 90 95
 Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly
 100 105 110
 Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu Leu Pro Arg Ala
 115 120 125
 Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr
 130 135 140
 Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala
 145 150 155 160
 Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr
 165 170 175
 His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro
 180 185 190
 Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg
 195 200 205
 Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly
 210 215 220
 Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
 225 230 235 240
 Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
 245 250 255
 Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
 260 265 270
 Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
 275 280 285
 ,Pro Leu Pro Ala Ser Leu Pro
 290 295

<210> 458
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 458
 Met Arg Pro Val Cys Ser Leu Gly Trp Ala Gly Trp Pro Gly Leu Val
 1 5 10 15

Cys Gly Leu Arg Ala Leu Leu Gly Pro Ser Leu Phe Pro Val Thr Phe
 20 25 30

Gly Ala Thr Glu Ala Val His Ser Leu Asp Val Cys Ser
 35 40 45

<210> 459
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 459
 Met Arg Phe Trp Phe Leu Val Phe Cys Phe Phe Phe Phe ProGlu Ala
 1 5 10 15
 His Val Tyr Pro Thr Ser Trp Ser Val Ser Glu Gln Gly Cys Ala Thr
 20 25 30
 Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu GluGlu
 35 40 45
 Asn Asn Thr Val Leu Asp Phe Pro
 50 55

<210> 460
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 460
 Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu SerAla
 1 5 10 15
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu
 20 25 30
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg
 35 40 45
 Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu
 50 55 60
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys
 65 70 75 80
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe
 85 90 95
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu
 100 105 110
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala
 115 120 125

Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys
 130 135 140
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala
 145 150 155 160
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val
 165 170 175
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu
 180 185 190
 Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu
 195 200 205
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu
 210 215 220
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu
 225 230 235 240
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
 245 250 255
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
 260 265 270
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg
 275 280 285
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
 290 295 300
 Leu
 305

<210> 461
 <211> 289
 <212> PRT
 <213> Homo sapiens

<400> 461
 Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
 1 5 10 15
 Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
 20 25 30
 Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
 35 40 45
 Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
 50 55 60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
 65 70 75 80
 Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
 85 90 95
 Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
 100 105 110
 Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly
 115 120 125
 Glu Gln Gly Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile
 130 135 140
 Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu
 145 150 155 160
 Glu Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu
 165 170 175
 His Tyr Asn Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile
 180 185 190
 Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala Ile
 195 200 205
 Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn
 210 215 220
 Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu Gln
 225 230 235 240
 Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn Gly
 245 250 255
 Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe Leu
 260 265 270
 Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp Glu
 275 280 285

Leu

<210> 462
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 462
 Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Leu Gln Glu Gly
 1 5 10 15

Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Ala

	20		25		30										
Val	Leu	Gln	Glu	Ser	Ile	Ser	Leu	Pro	Leu	Glu	Ile	Pro	Pro	Asp	Glu
		35					40					45			
Glu	Val	Glu	Asn	Ile	Ile	Trp	Ser	Ser	His	Lys	Ser	Leu	Ala	Thr	Val
	50					55					60				
Val	Pro	Gly	Lys	Glu	Gly	His	Pro	Ala	Thr	Ile	Met	Val	Thr	Asn	Pro
	65				70					75					80
His	Tyr	Gln	Gly	Gln	Val	Ser	Phe	Leu	Asp	Pro	Ser	Tyr	Ser	Leu	His
				85					90					95	
Ile	Ser	Asn	Leu	Ser	Trp	Glu	Asp	Ser	Gly	Leu	Leu	Pro	Ser	Ser	Ser
		100						105					110		
Gln	Pro	Glu	Asn	Ile	Pro	Asp	Leu	Tyr	His	Ala	Ala	Val	Gln	Ser	Met
		115					120					125			
Cys	Leu	Pro	Met	Ala	Val	Arg	Ala	Pro	Asp	His	Cys	Glu	Leu		
	130					135					140				

<210> 463
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 463
 Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly
 1 5 10 15
 Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly
 20 25 30
 Lys Lys Ala Lys Lys His Met Leu Val ProPro Pro Gly Lys Glu Lys
 35 40 45
 Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro
 50 55 60
 Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys
 65 70 75

<210> 464
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 464
 Met Lys Leu Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Leu Ser Gln
 1 5 10 15

Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys
 20 25 30
 Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn
 35 40 45
 Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp
 50 55 60
 Trp Pro Phe
 65

<210> 465
 <211> 163
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (113)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 465
 Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1 5 10 15
 Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 20 25 30
 Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45
 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60
 Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
 65 70 75 80
 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Xaa Lys Cys Val Val Arg Val
 100 105 110
 Xaa Glu Cys Arg Gly Pro Thr Asp Cys Gly Trp Gly Lys Pro Ile Ser
 115 120 125
 Glu Ser Leu Glu Ser Val Arg Leu Ala Cys Ile His Thr Ser Pro Leu
 130 135 140

Ile Val Ser Ile Tyr Val Glu Leu Leu Arg Gln Thr Thr Ile His Tyr
 145 150 155 160

Thr Cys Lys

<210> 466
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 466
 Met Pro Pro Pro Arg Val Phe Lys Ser Phe Leu Ser Leu Leu Phe Gln
 1 5 10 15
 Gly Leu Ser Val Leu Leu Ser Leu Ala Gly Asp Val Leu Val Ser Met
 20 25 30
 Tyr Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala Val Ser Leu
 35 40 45
 Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu Tyr Leu Val
 50 55 60
 Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu Ser Glu Tyr
 65 70 75 80
 His Glu Arg Val Arg Ser Gln Gly Gln Gln Leu Gln Gln Leu Gln Ala
 85 90 95
 Glu Leu Asp Lys Leu His Lys Glu Val Ser Thr Val Arg Ala Ala Asn
 100 105 110
 Ser Glu Arg Val Ala Lys Leu Val Phe Gln Arg Leu Asn Glu Asp Phe
 115 120 125
 Val Arg Lys Pro Asp Tyr Ala Leu Ser Ser Val Gly Ala Ser Ile Asp
 130 135 140
 Leu Gln Lys Thr Ser His Asp Tyr Ala Asp Arg Asn Thr Ala Tyr Phe
 145 150 155 160
 Trp Asn Arg Phe Ser Phe Trp Asn Tyr Ala Arg Pro Pro Thr Val Ile
 165 170 175
 Leu Glu Pro His Val Phe Pro Gly Asn Cys Trp Ala Phe Glu Gly Asp
 180 185 190
 Gln Gly Gln Val Val Ile Gln Leu Pro Gly Arg Val Gln Leu Ser Asp
 195 200 205
 Ile Thr Leu Gln His Pro Pro Pro Ser Val Glu His Thr Gly Gly Ala
 210 215 220
 Asn Ser Ala Pro Arg Asp Phe Ala Val Phe Gly Leu Gln Val Tyr Asp

225 230 235 240
 Glu Thr Glu Val Ser Leu Gly Lys Phe Thr Phe Asp Val Glu Lys Ser
 245 250 255
 Glu Ile Gln Thr Phe His Leu Gln Asn Asp Pro Pro Ala Ala Phe Pro
 260 265 270
 Lys Val Lys Ile Gln Ile Leu Ser Asn Trp Gly His Pro Arg Phe Thr
 275 280 285
 Cys Leu Tyr Arg Val Arg Ala His Gly Val Arg Thr Ser Glu Gly Ala
 290 295 300
 Glu Gly Ser Ala Gln Gly Pro His
 305 310

<210> 467
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 467
 Met Pro Arg Cys Arg Trp Leu Ser Leu Ile Leu Leu Thr Ile Pro Leu
 1 5 10 15
 Ala Leu Val Ala Arg Lys Asp Pro Lys Lys Asn Glu Thr Gly Val Leu
 20 25 30
 Arg Lys Leu Lys Pro Val Asn Ala Ser Asn Ala Asn Val Lys Gln Cys
 35 40 45
 Leu Trp Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys Tyr
 50 55 60
 Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr Asn
 65 70 75 80
 Leu Leu Glu Tyr Leu Ile Asp Val Glu Ile Ala Arg Ser Asp Cys Arg
 85 90 95
 Lys Pro Leu Ser Thr Asn Glu Ile Cys Ala Ile Gln Glu Asn Ser Lys
 100 105 110
 Leu Lys Arg Lys Leu Ser Cys Ser Phe Leu Val Gly Ala Leu Pro Trp
 115 120 125
 Asn Gly Glu Phe Thr Val Met Glu Lys Lys Cys Glu Asp Ala
 130 135 140

<210> 468
 <211> 58
 <212> PRT

<213> Homo sapiens

<400> 468

Met Ser Leu Leu Phe Ile Val Ser Leu Leu Glu Leu Gly Pro Met Ala
1 5 10 15
Leu Leu Ala Glu Arg Lys Ala Met Lys Pro Ser Leu Gly Leu Arg Leu
20 25 30
Glu Glu Glu Glu Glu Glu Thr Pro Phe Glu Glu Gln Arg Ala Val Ser
35 40 45
Val Ile Pro Gly Val Pro Val Thr Tyr Leu
50 55

<210> 469

<211> 47

<212> PRT

<213> Homo sapiens

<400> 469

Met Tyr Leu Phe Leu Leu Cys Cys Phe Ile Ser Glu His Cys Ala Gln
1 5 10 15
His Ser Phe Pro His Thr Cys Pro Asn Trp Lys Thr Arg Val Leu Ser
20 25 30
Phe Pro Leu His Pro Cys Pro His Leu Ile His Pro Asn Asn Thr
35 40 45

<210> 470

<211> 89

<212> PRT

<213> Homo sapiens

<400> 470

Met Val Ser Ala Ser Val Phe Val Gly Leu Val Ile Phe Tyr Ile Ala
1 5 10 15
Phe Cys Leu Leu Trp Pro Leu Val Val Lys Gly Cys Thr Met Ile Arg
20 25 30
Trp Lys Ile Asn Asn Leu Ile Ala Ser Glu Ser Tyr Tyr Thr Tyr Ala
35 40 45
Ser Ile Ser Gly Ile Ser Ser Met Pro Ser Leu Arg His Ser Arg Met
50 55 60
Gly Ser Met Phe Ser Ser Arg Met Thr Glu Asp Arg Ala Glu Pro Lys
65 70 75 80
Glu Ala Val Glu Arg Gln Leu Met Thr
85

<210> 471
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 471
 Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu
 1 5 10 15
 Ala Pro Leu Arg Phe Ile Lys Gly Leu Leu Gly Pro Trp Gly Trp Ile
 20 25 30
 Leu Leu Ile Leu Asp Leu Glu
 35

<210> 472
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 472
 Met Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly
 1 5 10 15
 Ile Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser
 20 25 30
 Arg Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile
 35 40 45
 Pro Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala
 50 55 60
 Ser Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe
 65 70 75 80
 Gln Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln
 85 90 95
 Ile Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile
 100 105 110
 Ile Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp
 115 120 125
 Glu Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn
 130 135 140
 Ser Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro
 145 150 155 160
 Ser Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser

	165		170		175
Val	Pro	Leu	Val	Pro	
	180				

<210> 473
 <211> 77
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 473
 Met Ala Ala Arg Ser Ala Leu Ala Leu Leu Leu Leu Leu Pro Val Leu
 1 5 10 15
 Leu Leu Pro Val Gln Ser Arg Ser Glu Pro Glu Thr Thr Ala Pro Thr
 20 25 30
 Pro Thr Pro Ile Pro Gly Gly Asn Ser Ser Xaa Ser Arg Pro Leu Pro
 35 40 45
 Ser Ile Glu Leu His Ala Cys Gly Pro Tyr Pro Lys Pro Gly Leu Leu
 50 55 60
 Ile Leu Leu Ala Pro Leu Ala Leu Trp Pro Ile Leu Leu
 65 70 75

<210> 474
 <211> 246
 <212> PRT
 <213> Homo sapiens

 <400> 474
 Met Gly Pro Gln His Leu Arg Leu Val Gln Leu Phe Cys Leu Leu Gly
 1 5 10 15
 Ala Ile Ser Thr Leu Pro Arg Ala Gly Ala Leu Leu Cys Tyr Glu Ala
 20 25 30
 Thr Ala Ser Arg Phe Arg Ala Val Ala Phe His Asn Trp Lys Trp Leu
 35 40 45
 Leu Met Arg Asn Met Val Cys Lys Leu Gln Glu Gly Cys Glu Glu Thr
 50 55 60
 Leu Val Phe Ile Glu Thr Gly Thr Ala Arg Gly Val Val Gly Phe Lys
 65 70 75 80
 Gly Cys Ser Ser Ser Ser Ser Tyr Pro Ala Gln Ile Ser Tyr Leu Val

85										90					95				
Ser	Pro	Pro	Gly	Val	Ser	Ile	Ala	Ser	Tyr	Ser	Arg	Val	Cys	Arg	Ser				
			100					105					110						
Tyr	Leu	Cys	Asn	Asn	Leu	Thr	Asn	Leu	Glu	Pro	Phe	Val	Lys	Leu	Lys				
		115					120					125							
Ala	Ser	Thr	Pro	Lys	Ser	Ile	Thr	Ser	Ala	Ser	Cys	Ser	Cys	Pro	Thr				
	130					135					140								
Cys	Val	Gly	Glu	His	Met	Lys	Asp	Cys	Leu	Pro	Asn	Phe	Val	Thr	Thr				
145					150					155					160				
Asn	Ser	Cys	Pro	Leu	Ala	Ala	Ser	Thr	Cys	Tyr	Ser	Ser	Thr	Leu	Lys				
			165						170					175					
Phe	Gln	Ala	Gly	Phe	Leu	Asn	Thr	Thr	Phe	Leu	Leu	Met	Gly	Cys	Ala				
			180					185					190						
Arg	Glu	His	Asn	Gln	Leu	Leu	Ala	Asp	Phe	His	His	Ile	Gly	Ser	Ile				
			195				200					205							
Lys	Val	Thr	Glu	Val	Leu	Asn	Ile	Leu	Glu	Lys	Ser	Gln	Ile	Val	Gly				
	210					215					220								
Ala	Ala	Ser	Ser	Arg	Gln	Asp	Pro	Ala	Trp	Gly	Val	Val	Leu	Gly	Leu				
225					230					235					240				
Leu	Phe	Ala	Phe	Arg	Asp														
				245															

<210> 475

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<400> 475

Met	Trp	Ser	Ser	Ser	Trp	Asp	His	Arg	Ile	Thr	Thr	Pro	Arg	Leu	Ala				
1				5					10					15					

Asn	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Val	Glu	Met	Gly	Phe				
			20					25					30						

Arg	Tyr	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Ala	Ser	Ser	Asn	Leu				
		35				40						45							

Pro	Ala	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His	His				
	50					55					60								

Xaa Trp Leu Gly Gly Leu Ile Lys Thr Pro Ile Leu Ser Leu Thr Pro
65 70 75 80

Arg Val Ser Gly

<210> 476
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring amino acids

<400> 476
Met Phe Leu Ala Ser Trp Leu Leu Phe Cys Ile Val Ala Pro Lys Asp
1 5 10 15
Asp Ala His Leu Ser Phe Ile Gln Cys Lys Asp Ile Trp Lys Asp Asn
20 25 30
Arg Lys Tyr Ser Cys Phe His Phe Lys Ser Asp Gln Leu Leu Glu Leu
35 40 45
Ala Ser Lys Ala Cys Thr Ser Phe Gln Ala Gln Ser Arg Ser Phe Thr
50 55 60
Ala Gly Ala Val Pro Ser Glu His Pro Glu LeuPro Cys Gly Ser Gln
65 70 75 80
Gln Leu Cys Cys Gly Cys Thr Ala Arg Leu Gly Gly Xaa Trp Ile Gly
85 90 95
Ala Ser Arg Cys Gly Ser Gly Ser Ala PheLeu Ala Ser Pro
100 105 110

<210> 477
<211> 190
<212> PRT
<213> Homo sapiens

<400> 477
Met Arg Ala Cys Pro Trp Ala Gln Val Pro Leu Tyr Leu Leu Leu Asp
1 5 10 15
Gly His Leu Ala Val Ser Gln Ala Gly Val Met Ala Gly Val Ser Gly
20 25 30
Gly Arg Gly Gly Arg Arg Leu Arg Gly Pro Ile Thr Ser Arg Val Ile
35 40 45

Thr Ser Cys Gln Gln Pro Gly Val Gly Val Trp Val Ser Leu Arg Pro
 50 55 60
 Glu Leu Leu Asn Leu Glu Ser Leu Gly Val Ala Ala Lys Gly Val Tyr
 65 70 75 80
 Asp Lys His Val Ser Leu Asp Ile Ser Gly Glu Arg Ser Gly Ala Leu
 85 90 95
 Val Thr Phe Ser Lys Gly Cys Trp Ala Ser Glu Gln Ser Pro Pro Met
 100 105 110
 Ser Gln Pro Leu Gln Gly Pro Ser Leu Ser Leu His Pro Arg Pro Ser
 115 120 125
 Ala Ala Leu Val Met Ser Arg Arg Lys Val Leu Gly Cys Ala Gln Ser
 130 135 140
 Gln Glu Ser Lys Ile Cys Gln Ala Lys Ala Pro Gly Lys Ser Arg Arg
 145 150 155 160
 Ser Leu Gly Trp Pro Pro Gly Cys Gly Ala Ala Arg Ala Lys Thr Val
 165 170 175
 Asn Thr Ala Leu Gln Leu Ser Glu Pro Gln Phe Ser Asn Leu
 180 185 190

<210> 478
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 478
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys
 1 5 10 15
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser
 20 25 30
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu
 35 40 45
 Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu
 50 55 60

<210> 479
 <211> 362
 <212> PRT
 <213> Homo sapiens

<400> 479
 Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala CysSer Pro
 1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
20 25 30
Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
35 40 45
Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
50 55 60
Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
65 70 75 80
Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
85 90 95
Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
100 105 110
Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
115 120 125
Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
130 135 140
His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
145 150 155 160
Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
165 170 175
Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
180 185 190
Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
195 200 205
Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
210 215 220
Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
225 230 235 240
Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
245 250 255
Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
260 265 270
Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
275 280 285
Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp
290 295 300
Ser Gln Ala Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
305 310 315 320

Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu
325 330 335

Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly
340 345 350

Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
355 360

<210> 480
<211> 318
<212> PRT
<213> Homo sapiens

<400> 480
Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser
1 5 10 15

Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val
20 25 30

Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
35 40 45

Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
50 55 60

His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
65 70 75 80

Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
85 90 95

Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
100 105 110

Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
115 120 125

Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Ala Gly
130 135 140

Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe
145 150 155 160

Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
165 170 175

Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
180 185 190

Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
195 200 205

Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
 210 215 220
 Asp Trp Arg Arg Lys His Gly Gln Ala Gly Lys Arg Lys TyrSer Ser
 225 230 235 240
 Ser His Ile Tyr Asp Ser Phe Pro Ser Leu Ser Phe Met Asp Phe Tyr
 245 250 255
 Ile Leu Arg Pro Val Gly Pro Cys Arg Ala Lys Leu ValMet Gly Thr
 260 265 270
 Leu Lys Leu Gln Ile Leu Gly Glu Val His Phe Val Glu Lys Pro His
 275 280 285
 Ser Leu Leu Gln Ile Ser Gly Gly Ser Thr Thr Leu Lys Lys Gly Pro
 290 295 300
 Asn Pro Trp Ser Phe Pro Ser Pro Cys Ala Leu Phe Pro Thr
 305 310 315

<210> 481
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1 5 10 15
 Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
 20 25 30
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
 35 40 45
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
 50 55 60
 Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
 65 70 75 80
 Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
 85 90 95
 Asp Lys Gly Trp Asp Leu
 100

<210> 482
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 482

Met Phe Phe Leu Gly Ala Val Leu Cys Leu Ser Phe Ser Trp Leu Phe
1 5 10 15
His Thr Val Tyr Cys His Ser Glu Lys Val Ser Arg Thr Phe Ser Lys
20 25 30
Leu Asp Tyr Ser Gly Ile Ala Leu Leu Ile Met Gly Ser Phe Val Pro
35 40 45
Trp Leu Tyr Tyr Ser Phe Tyr Cys Ser Pro Gln Pro Arg Leu Ile Tyr
50 55 60
Leu Ser Ile Val Cys Val Leu Gly Ile Ser Ala Ile Ile Val Ala Gln
65 70 75 80
Trp Asp Arg Phe Ala Thr Pro Lys His Arg Gln Thr Arg Ala Gly Val
85 90 95
Phe Leu Gly Leu Gly Leu Ser Gly Val Val Pro Thr Met His Phe Thr
100 105 110
Ile Ala Glu Gly Phe Val Lys Ala Thr Thr Val Gly Gln Met Gly Trp
115 120 125
Phe Phe Leu Met Ala Val Met Tyr Ile Thr Gly Ala Gly Leu Tyr Ala
130 135 140
Ala Arg Ile Pro Glu Arg Phe Phe Pro Gly Lys Phe Asp Ile Trp Phe
145 150 155 160
Gln Ser His Gln Ile Phe His Val Leu Val Val Ala Ala Ala Phe Val
165 170 175
His Phe Tyr Gly Val Ser Asn Leu Gln Glu Phe Arg Tyr Gly Leu Glu
180 185 190
Gly Gly Cys Thr Asp Asp Thr Leu Leu
195 200

<210> 483

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 483
 Met Gly Arg Arg Ser Gly Leu Leu Gly Leu Arg Pro Gly Arg SerArg
 1 5 10 15
 Trp Arg Trp Ser Gly Ser Val Trp Val Arg Ser Val Leu Leu Leu Leu
 20 25 30
 Gly Gly Leu Arg Ala Ser Ala Thr Ser Thr Pro Val Ser Leu Gly Ser
 35 40 45
 Ser Pro Pro Cys Arg His His Val Pro Ser Asp Thr Glu Val Ile Asn
 50 55 60
 Lys Val His Leu Lys Ala Asn His Val Val Lys Arg Asp Val Asp Glu
 65 70 75 80
 His Leu Arg Ile Lys Thr Val Tyr Asp Lys Xaa Xaa Xaa Ser Cys Ser
 85 90 95
 Leu Arg Lys Arg Ile Leu /
 100

<210> 484
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 484
 Met Met Leu Gly Leu Arg Gln Lys Leu Thr Thr Ser Leu Thr Ser Ala
 1 5 10 15
 Ala Ala Leu Thr Cys Val Leu Leu Leu Ser Met Thr Gly Met Thr Thr
 20 25 30
 Ser Ser Ser Arg Ser Val Leu Trp Lys Thr
 35 40

<210> 485
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 485
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30

Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Gln
 65 70 75 80
 Gly Arg Gly Pro Ile Leu Pro Gly Thr Lys Ala Trp Met Glu Thr Glu
 85 90 95
 Asp Thr Leu Gly Arg Val Leu Ser Pro Glu Pro Asp His Asp Ser Leu
 100 105 110
 Tyr His Pro Pro Pro Glu Glu Asp Gln Gly Glu Glu Arg Pro Arg Leu
 115 120 125
 Trp Val Met Pro Asn His Gln Val Leu Leu Gly Pro Glu Glu Asp Gln
 130 135 140
 Asp His Ile Tyr His Pro Gln
 145 150

<210> 486

<211> 506

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (423)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (425)

<223> Xaa equals any of the naturally occurring amino acids

<400> 486

Met Gly Met Arg Arg His Ser Leu Met Leu Leu Pro Trp Trp Leu Gly
 1 5 10 15

Ala Ala Gly Arg Lys Glu Cys His Arg Glu Gln Leu Val Ala Ala Val

20					25					30					
Glu	Val	Thr	Glu	Gln	Glu	Thr	Lys	Val	Pro	Lys	Lys	Thr	Val	Ile	Ile
35						40						45			
Glu	Glu	Thr	Ile	Thr	Thr	Val	Val	Lys	Ser	Pro	Arg	Gly	Gln	Arg	Arg
50						55						60			
Xaa	Pro	Ser	Lys	Ser	Pro	Ser	Arg	Ser	Pro	Ser	Arg	Cys	Ser	Ala	Ser
65						70						75			
Pro	Leu	Arg	Pro	Gly	Leu	Leu	Ala	Pro	Asp	Leu	Leu	Tyr	Leu	Pro	Gly
			85						90			95			
Ala	Gly	Gln	Pro	Arg	Arg	Pro	Glu	Ala	Glu	Pro	Gly	Gln	Lys	Pro	Xaa
			100						105			110			
Val	Pro	Thr	Leu	Tyr	Val	Thr	Glu	Ala	Glu	Ala	His	Ser	Pro	Ala	Leu
			115						120			125			
Pro	Gly	Leu	Ser	Gly	Pro	Gln	Pro	Lys	Trp	Val	Glu	Val	Glu	Glu	Thr
130						135						140			
Ile	Glu	Val	Arg	Val	Lys	Lys	Met	Gly	Pro	Gln	Gly	Val	Ser	Pro	Thr
145						150						155			
Thr	Glu	Val	Pro	Arg	Ser	Ser	Ser	Gly	His	Leu	Phe	Thr	Leu	Pro	Gly
			165						170			175			
Ala	Thr	Pro	Gly	Gly	Asp	Pro	Asn	Ser	Asn	Asn	Ser	Asn	Asn	Lys	Leu
			180						185			190			
Leu	Ala	Gln	Glu	Ala	Trp	Ala	Gln	Gly	Thr	Ala	Met	Val	Gly	Val	Arg
			195						200			205			
Glu	Pro	Leu	Val	Phe	Arg	Val	Asp	Ala	Arg	Gly	Ser	Val	Asp	Trp	Ala
210						215						220			
Ala	Ser	Gly	Met	Gly	Ser	Leu	Glu	Glu	Glu	Gly	Thr	Met	Glu	Glu	Ala
225						230						235			
Gly	Glu	Glu	Glu	Gly	Glu	Asp	Gly	Asp	Ala	Phe	Val	Thr	Glu	Glu	Ser
			245						250			255			
Gln	Asp	Thr	His	Ser	Leu	Gly	Asp	Arg	Asp	Pro	Lys	Ile	Leu	Thr	His
			260						265			270			
Asn	Gly	Arg	Met	Leu	Thr	Leu	Ala	Asp	Leu	Glu	Asp	Tyr	Val	Pro	Gly
275						280						285			
Glu	Gly	Glu	Thr	Phe	His	Cys	Gly	Gly	Pro	Gly	Pro	Gly	Ala	Pro	Asp
290						295						300			
Asp	Pro	Pro	Cys	Glu	Val	Ser	Val	Ile	Gln	Arg	Glu	Ile	Gly	Glu	Pro
305						310						315			
Thr	Val	Gly	Ser	Leu	Cys	Cys	Ser	Ala	Trp	Gly	Met	His	Trp	Val	Pro

Pro Pro His Leu Gln Ile Arg Pro Pro Ser Gln Asp Leu Lys Asp Gly
 85 90 95
 Thr Gln Glu Glu Ala Thr Lys Arg Gln Glu Ala Pro Val Asp Pro Arg
 100 105 110
 Pro Glu Gly Asp Pro Gln Arg Thr Val Ile Ser Trp Arg Gly Ala Val
 115 120 125
 Ile Glu Pro Glu Gln Gly Thr Glu Leu Pro Ser Arg Arg Ala Glu Val
 130 135 140
 Pro Thr Lys Pro Pro Leu Pro Pro Ala Arg Thr Gln Gly Thr Pro Val
 145 150 155 160
 His Leu Asn Tyr Arg Gln Lys Gly Val Ile Asp Val Phe Leu His Ala
 165 170 175
 Trp Lys Gly Tyr Arg Lys Phe Ala Trp Gly His Asp Glu Leu Lys Pro
 180 185 190
 Val Ser Arg Ser Phe Ser Glu Trp Phe Gly Leu Gly Leu Thr Leu Ile
 195 200 205
 Asp Ala Leu Asp Thr Met Trp Ile Leu Gly Leu Arg Lys Glu Phe Glu
 210 215 220
 Glu Ala Arg Lys Trp Val Ser Lys Lys Leu His Phe Glu Lys Asp Val
 225 230 235 240
 Asp Val Asn Leu Phe Glu Ser Thr Ile Arg Ile Leu Gly Gly Leu Leu
 245 250 255
 Ser Ala Tyr His Leu Ser Gly Asp Ser Leu Phe Leu Arg Lys Ala Glu
 260 265 270
 Asp Phe Gly Asn Arg Leu Met Pro Ala Phe Arg Thr Pro Ser Lys Ile
 275 280 285
 Pro Tyr Ser Asp Val Asn Ile Gly Thr Gly Val Ala His Pro Pro Arg
 290 295 300
 Trp Thr Ser Asp Ser Thr Val Ala Glu Val Thr Ser Ile Gln Leu Glu
 305 310 315 320
 Phe Arg Glu Leu Ser Arg Leu Thr Gly Asp Lys Lys Phe Gln Glu Ala
 325 330 335
 Val Glu Lys Val Thr Gln His Ile His Gly Leu Ser Gly Lys Lys Asp
 340 345 350
 Gly Leu Val Pro Met Phe Ile Asn Thr His Ser Gly Leu Phe Thr His
 355 360 365
 Leu Gly Val Phe Thr Leu Gly Ala Arg Ala Asp Ser Tyr Tyr Glu Tyr
 370 375 380

Leu Leu Lys Gln Trp Ile Gln Gly Gly Lys Gln Glu Thr Gln Leu Leu
 385 390 395 400
 Glu Asp Tyr Val Glu Ala Ile Glu Gly Val Arg Thr His Leu Leu Ag
 405 410 415
 His Ser Glu Pro Ser Lys Leu Thr Phe Val Gly Glu Leu Ala His Gly
 420 425 430
 Arg Phe Ser Ala Lys Met Asp His Leu Val Cys Phe Leu Pro Gly Thr
 435 440 445
 Leu Ala Leu Gly Val Tyr His Gly Leu Pro Ala Ser His Met Glu Leu
 450 455 460
 Ala Gln Glu Leu Met Glu Thr Cys Tyr Gln Met Asn Arg Gln Met Glu
 465 470 475 480
 Thr Gly Leu Ser Pro Glu Ile Val His Phe Asn Leu Tyr Pro Gln Pro
 485 490 495
 Gly Arg Arg Asp Val Glu Val Lys Pro Ala Asp Arg His Asn Leu Leu
 500 505 510
 Arg Pro Glu Thr Val Glu Ser Leu Phe Tyr Leu Tyr Arg Val Thr Gly
 515 520 525
 Asp Arg Lys Tyr Gln Asp Trp Gly Trp Glu Ile Leu Gln Ser Phe Ser
 530 535 540
 Arg Phe Thr Arg Val Pro Ser Gly Gly Tyr Ser Ser Ile Asn Asn Val
 545 550 555 560
 Gln Asp Pro Gln Lys Pro Glu Pro Arg Asp Lys Met Glu Ser Phe Phe
 565 570 575
 Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro
 580 585 590
 Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro
 595 600 605
 Leu Pro Ile Trp Thr Pro Ala
 610 615

<210> 488
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 488
 Met Gly Pro Leu Trp Gly Ala Pro Leu Arg Ala Trp Ala Ala Gly Ser
 1 5 10 15

Val Gly Cys Pro Cys Cys Leu Ser Cys Ala Ser Pro Ser Ser Ile Ser
20 25 30
Ser Ala Gly Asp Pro Leu Ala Ser Cys Ser Thr Cys Gly Ser Thr Trp
35 40 5
Glu Ile Pro Leu Thr Trp Met Thr Met Asp His Leu Leu Val Arg Tyr
50 55 60
Tyr Leu Ser Gln Ala Arg Trp Cys Thr Thr Gly
65 70 75

<210> 489
<211> 187
<212> PRT
<213> Homo sapiens

<400> 489
Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
1 5 10 15
Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn
20 25 30
Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
35 40 45
Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr
50 55 60
Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
65 70 75 80
Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
85 90 95
Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
100 105 110
Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
115 120 125
Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
130 135 140
Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
145 150 155 160
Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
165 170 175
Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
180 185

<210> 490
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 490
 Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
 1 5 10 15
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
 20 25 30
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
 35 40 45
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60
 Phe Pro Ile Ser Arg Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
 65 70 75 80
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95
 Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 491
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 491
 Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys
 1 5 10 15
 Leu Ala Val Thr Arg Pro Ser Trp Arg Leu Gly Cys Ala Ala Arg Pro
 20 25 30
 Gly Pro Pro Leu Leu Leu Ala Val Trp Leu Ala Ala Leu Leu Leu Ala
 35 40 45
 Val Pro Ala Ala Val Tyr Arg His Leu Trp Arg Asp Arg Val Cys Gln
 50 55 60
 Leu Cys His Pro Ser Pro Val His Ala Ala Ala His Leu Ser Leu Glu
 65 70 75 80
 Thr Leu Thr Ala Phe Val Leu Pro Phe Gly Leu Met Leu Gly Cys Tyr
 85 90 95
 Ser Val Thr Leu Ala Arg Leu Arg Gly Ala Arg Trp Gly Ser Gly Arg
 100 105 110

His Gly Ala Arg Val Gly Arg Leu Val Ser Ala Ile Val Leu Pro Ser
 115 120 125
 Ala Cys Ser Gly Pro Pro Thr Thr Gln Ser Thr Phe Cys Arg Arg Ser
 130 135 140
 Gln Arg Trp Leu His Arg Lys Gly Pro Trp Arg Ser Trp Ala Glu Pro
 145 150 155 160
 Ala Arg Arg Arg Glu Arg Glu Leu Arg Pro Trp Pro Ser Ser Val Leu
 165 170 175
 Ala Ser Thr Arg Cys Ser Thr Ser Ser Pro Leu Glu Ile Cys Cys Pro
 180 185 190
 Gly Gln Val Pro Val Ser Ser Arg Gly Ser Ser Lys Ala Leu Gly Arg
 195 200 205
 Pro Glu Gly
 210

<210> 492
 <211> 742
 <212> PRT
 <213> Homo sapiens

<400> 492
 Met Ala Val Arg Glu Leu Cys Phe Pro Arg Gln Arg Gln Val Leu Phe
 1 5 10 15
 Leu Phe Leu Phe Trp Gly Val Ser Leu Ala Gly Ser Gly Phe Gly Arg
 20 25 30
 Tyr Ser Val Thr Glu Glu Thr Glu Lys Gly Ser Phe Val Val Asn Leu
 35 40 45
 Ala Lys Asp Leu Gly Leu Ala Glu Gly Glu Leu Ala Ala Arg Gly Thr
 50 55 60
 Arg Val Val Ser Asp Asp Asn Lys Gln Tyr Leu Leu Leu Asp Ser His
 65 70 75 80
 Thr Gly Asn Leu Leu Thr Asn Glu Lys Leu Asp Arg Glu Lys Leu Cys
 85 90 95
 Gly Pro Lys Glu Pro Cys Met Leu Tyr Phe Gln Ile Leu Met Asp Asp
 100 105 110
 Pro Phe Gln Ile Tyr Arg Ala Glu Leu Arg Val Arg Asp Ile Asn Asp
 115 120 125
 His Ala Pro Val Phe Gln Asp Lys Glu Thr Val Leu Lys Ile Ser Glu
 130 135 140
 Asn Thr Ala Glu Gly Thr Ala Phe Arg Leu Glu Arg Ala Gln Asp Pro

145		150		155		160
Asp Gly Gly Leu	Asn Gly Ile Gln Asn Tyr Thr Ile Ser Pro Asn Ser	165		170		175
Phe Phe His Ile	Asn Ile Ser Gly Gly Asp Glu Gly Met Ile Tyr Pro	180		185		190
Glu Leu Val Leu	Asp Lys Ala Leu Asp Arg Glu Glu Gln Gly Glu Leu	195		200		205
Ser Leu Thr Leu	Thr Ala Leu Asp Gly Gly Ser Pro Ser Arg Ser Gly	210		215		220
Thr Ser Thr Val	Arg Ile Val Val Leu Asp Val Asn Asp Asn Ala Pro	225		230		235
Gln Phe Ala Gln	Ala Leu Tyr Glu Thr Gln Ala Pro Glu Asn Ser Pro	245		250		255
Ile Gly Phe Leu	Ile Val Lys Val Trp Ala Glu Asp Val Asp Ser Gly	260		265		270
Val Asn Ala Glu	Val Ser Tyr Ser Phe Phe Asp Ala Ser Glu Asn Ile	275		280		285
Arg Thr Thr Phe	Gln Ile Asn Pro Phe Ser Gly Glu Ile Phe Leu Arg	290		295		300
Glu Leu Leu Asp	Tyr Glu Leu Val Asn Ser Tyr Lys Ile Asn Ile Gln	305		310		315
Ala Met Asp Gly	Gly Gly Leu Ser Ala Arg Cys Arg Val Leu Val Glu	325		330		335
Val Leu Asp Thr	Asn Asp Asn Pro Pro Glu Leu Ile Val Ser Ser Phe	340		345		350
Ser Asn Ser Val	Ala Glu Asn Ser Pro Glu Thr Pro Leu Ala Val Phe	355		360		365
Lys Ile Asn Asp	Arg Asp Ser Gly Glu Asn Gly Lys Met Val Cys Tyr	370		375		380
Ile Gln Glu Asn	Leu Pro Phe Leu Leu Lys Pro SerVal Glu Asn Phe	385		390		395
Tyr Ile Leu Ile	Thr Glu Gly Ala Leu Asp Arg Glu Ile Arg Ala Glu	405		410		415
Tyr Asn Ile Thr	Ile Thr Val Thr Asp Leu GlyThr Pro Arg Leu Lys	420		425		430
Thr Glu His Asn	Ile Thr Val Leu Val Ser Asp Val Asn Asn Asn Ala	435		440		445
Pro Ala Phe Thr	Gln Thr Ser Tyr Thr Leu Phe Val Arg GluAsn Asn					

450					455					460					
Ser	Pro	Ala	Leu	His	Ile	Gly	Ser	Val	Ser	Ala	Thr	Asp	Arg	Asp	Ser
465					470					475					480
Gly	Thr	Asn	Ala	Gln	Val	Thr	Tyr	Ser	Leu	Leu	Pro	Pro	Gln	Asp	Pro
				485					490					495	
His	Leu	Pro	Leu	Ala	Ser	Leu	Val	Ser	Ile	Asn	Ala	Asp	Asn	Gly	His
			500					505					510		
Leu	Phe	Ala	Leu	Arg	Ser	Leu	Asp	Tyr	Glu	Ala	Leu	Gln	Ala	Phe	Glu
		515					520					525			
Phe	Arg	Val	Gly	Ala	Thr	Asp	Arg	Gly	Ser	Pro	Ala	Leu	Asn	Ser	Glu
		530				535					540				
Ala	Leu	Gly	Ala	Arg	Ala	Gly	Ala	Gly	Arg	Gln	Arg	Gln	Leu	Ala	Leu
545					550					555					560
Arg	Ala	Val	Pro	Ala	Ala	Glu	Arg	Leu	Arg	Ala	Leu	His	Arg	Ala	Gly
				565					570					575	
Ala	Pro	Gly	Gly	Arg	Ala	Gly	Leu	Pro	Gly	Asp	Gln	Gly	Gly	Gly	Gly
			580					585					590		
Gly	Arg	Arg	Leu	Gly	Pro	Glu	Arg	Leu	Ala	Val	Val	Pro	Ala	Ala	Gln
		595					600					605			
Gly	His	Gly	Ala	Arg	Ala	Val	Arg	Cys	Val	Gly	Ala	Gln	Trp	Gly	Gly
	610					615					620				
Ala	His	Arg	Gln	Ala	Ala	Glu	Arg	Ala	Arg	Arg	Ser	Gln	Ala	Gln	Ala
625					630					635					640
Gly	Gly	Ala	Cys	Gln	Gly	Gln	Trp	Arg	Ala	Ser	Ser	Leu	Gly	His	Arg
				645					650					655	
His	Ala	Ala	Arg	Ala	Pro	Gly	Gly	Arg	Leu	Leu	Pro	Ala	Leu	Pro	Ala
			660					665					670		
Ser	Pro	Gly	Gly	Gly	Pro	Gly	Pro	Gly	Pro	Gly	Arg	Leu	Ala	His	Arg
		675					680					685			
Leu	Pro	Gly	Gly	Gly	Val	Gly	Leu	Gly	Val	Phe	Ala	Leu	Pro	Pro	Leu
		690				695					700				
Gly	Ala	Pro	Val	Arg	Gly	Gly	Ala	Ala	Val	Gln	Glu	Glu	Gln	Gly	Gly
705					710					715					720
Leu	Gly	Gly	Ser	Leu	Leu	Gly	Ala	Arg	Gly	Ser	Phe	Ser	Arg	Ala	Ser
				725					730					735	
Gly	Gly	Arg	Glu	Gly	Arg										
			740												

<210> 493
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 493
 Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met
 1 5 10 15
 Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile
 20 25 30
 Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe
 35 40 45

<210> 494
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 494
 Met Ile His Arg Ala Arg Ser Leu Ala Ala Leu Ser Ser Leu Met Leu
 1 5 10 15
 Tyr Thr Lys Leu Val Gln Pro Val Ala Cys Ile Ser His Val Ala Gln
 20 25 30
 Asp Gly Phe Glu Tyr Gly Pro Thr Gln Ile His Lys Leu Ser
 35 40 45

<210> 495
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 495
 Met Ser Gly Ala Trp Gly Ser Gly Phe Ala Gly Ala Leu Trp Ser Met
 1 5 10 15
 Gly Leu Cys Ala Ser Ser Val Trp Gly Asn Ser Trp Asp Ile Asp Phe
 20 25 30
 Cys Pro Arg Asp Ser His Gly Glu Trp
 35 40

<210> 496
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 496

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
1 5 10 15
Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30
Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
35 40 45
Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60
Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65 70 75 80
Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
85 90 95
Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asn Ser Ala Leu
100 105 110
Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
115 120 125
Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
130 135 140
Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145 150 155 160
Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
165 170 175
Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
180 185 190
Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
195 200 205
Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
210 215 220
Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225 230 235 240
Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
245 250 255
Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
260 265 270
Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
275 280 285
Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
290 295 300

Lys Ser Ser Phe Val Ile
305 310

<210> 497
<211> 525
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring amino acids

<400> 497
Met Leu Ala Phe Pro Leu Leu Thr Gly Leu Ile Ser Phe Arg Glu
1 5 10 15
Lys Arg Leu Gln Asp Val Gly Thr Pro Ala Ala Arg Ala Arg Ala Phe
20 25 30
Phe Thr Ala Pro Val Val Val Phe His Leu Asn Ile Leu Ser Tyr Phe
35 40 45
Ala Phe Leu Cys Leu Phe Ala Tyr Val Leu Met Val Asp Phe Gln Pro
50 55 60
Val Pro Ser Trp Cys Glu Cys Ala Ile Tyr Leu Trp Leu Phe Ser Leu
65 70 75 80
Val Cys Glu Glu Met Arg Gln Leu Phe Tyr Asp Pro Asp Glu Cys Gly
85 90 95
Leu Met Lys Lys Ala Ala Leu Tyr Phe Ser Asp Phe Trp Asn Lys Leu
100 105 110
Asp Val Gly Ala Ile Leu Leu Phe Val Ala Gly Leu Thr Cys Arg Leu
115 120 125
Ile Pro Ala Thr Leu Tyr Pro Gly Arg Val Ile Leu Ser Leu Asp Phe
130 135 140
Ile Leu Phe Cys Leu Arg Leu Met His Ile Phe Thr Ile Ser Lys Thr
145 150 155 160
Leu Gly Pro Lys Ile Ile Ile Val Lys Arg Met Met Lys Asp Val Phe
165 170 175
Phe Phe Leu Phe Leu Leu Ala Val Trp Val Val Ser Phe Gly Val Ala
180 185 190
Lys Gln Ala Ile Leu Ile His Asn Glu Arg Arg Val Asp Trp Leu Phe
195 200 205
Arg Xaa Ala Val Tyr His Ser Tyr Leu Thr Ile Phe Gly Gln Ile Pro

210				215				220							
Gly	Tyr	Ile	Asp	Gly	Val	Asn	Phe	Asn	Pro	Glu	His	Cys	Ser	Pro	Asn
225					230					235					240
Gly	Thr	Asp	Pro	Tyr	Lys	Pro	Lys	Cys	Pro	Glu	Ser	Asp	Ala	Thr	Gln
				245					250					255	
Gln	Arg	Pro	Ala	Phe	Pro	Glu	Trp	Leu	Thr	Val	Leu	Leu	Leu	Cys	Leu
			260						265					270	
Tyr	Leu	Leu	Phe	Thr	Asn	Ile	Leu	Leu	Leu	Asn	Leu	Leu	Ile	Ala	Met
			275				280							285	
Phe	Asn	Tyr	Thr	Phe	Gln	Gln	Val	Gln	Glu	His	Thr	Asp	Gln	Ile	Trp
	290					295					300				
Lys	Phe	Gln	Arg	His	Asp	Leu	Ile	Glu	Glu	Tyr	His	Gly	Arg	Pro	Ala
305					310					315					320
Ala	Pro	Pro	Pro	Phe	Ile	Leu	Leu	Ser	His	Leu	Gln	Leu	Phe	Ile	Lys
				325					330					335	
Arg	Val	Val	Leu	Lys	Thr	Pro	Ala	Lys	Arg	His	Lys	Gln	Leu	Lys	Asn
			340						345					350	
Lys	Leu	Glu	Lys	Asn	Glu	Glu	Ala	Ala	Leu	Leu	Ser	Trp	Glu	Ile	Tyr
		355					360						365		
Leu	Lys	Glu	Asn	Tyr	Leu	Gln	Asn	Arg	Gln	Phe	Gln	Gln	Lys	Gln	Arg
	370					375									
Pro	Glu	Gln	Lys	Ile	Glu	Asp	Ile	Ser	Asn	Lys	Val	Asp	Ala	Met	Val
385					390					395					400
Asp	Leu	Leu	Asp	Leu	Asp	Pro	Leu	Lys	Arg	Ser	Gly	Ser	Met	Glu	Gln
			405						410					415	
Arg	Leu	Ala	Ser	Leu	Glu	Glu	Gln	Val	Ala	Gln	Thr	Ala	Arg	Ala	Leu
			420						425					430	
His	Trp	Ile	Val	Arg	Thr	Leu	Arg	Ala	Ser	Gly	Phe	Ser	Ser	Glu	Ala
		435					440							445	
Asp	Val	Pro	Thr	Leu	Ala	Ser	Gln	Lys	Ala	Ala	Glu	Glu	Pro	Asp	Ala
	450					455					460				
Glu	Pro	Gly	Gly	Arg	Lys	Lys	Thr	Glu	Glu	Pro	Gly	Asp	Ser	Tyr	His
465					470					475					480
Val	Asn	Ala	Arg	His	Leu	Leu	Tyr	Pro	Asn	Cys	Pro	Val	Thr	Arg	Phe
			485						490					495	
Pro	Val	Pro	Asn	Glu	Lys	Val	Pro	Trp	Glu	Thr	Glu	Phe	Leu	Ile	Tyr
			500						505					510	
Asp	Pro	Pro	Phe	Tyr	Thr	Ala	Glu	Arg	Lys	Asp	Ala	Ala			

515 520 525

 <210> 498
 <211> 390
 <212> PRT
 <213> Homo sapiens

 <400> 498
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15

 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30

 Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45

 Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60

 Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80

 Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95

 Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110

 Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125

 Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140

 Leu Glu Leu Asn Val Leu Val Pro Pro Ala Pro Pro Ser Cys Arg Leu
 145 150 155 160

 Gln Gly Val Pro His Val Gly Ala Asn Val Thr Leu Ser Cys Gln Ser
 165 170 175

 Pro Arg Ser Lys Pro Ala Val Gln Tyr Gln Trp Asp Arg Gln Leu Pro
 180 185 190

 Ser Phe Gln Thr Phe Phe Ala Pro Ala Leu Asp Val Ile Arg Gly Ser
 195 200 205

 Leu Ser Leu Thr Asn Leu Ser Ser Ser Met Ala Gly Val Tyr Val Cys
 210 215 220

 Lys Ala His Asn Glu Val Gly Thr Ala Gln Cys Asn Val Thr Leu Glu
 225 230 235 240

 Val Ser Thr Gly Pro Gly Ala Ala Val Val Ala Gly Ala Val Val Gly
 245 250 255

Thr Leu Val Gly Leu Gly Leu Leu Ala Gly Leu Val Leu Leu Tyr His
 260 265 270
 Arg Arg Gly Lys Ala Leu Glu Glu Pro Ala Asn Asp Ile Lys Glu Asp
 275 280 285
 Ala Ile Ala Pro Arg Thr Leu Pro Trp Pro Lys Ser Ser Asp Thr Ile
 290 295 300
 Ser Lys Asn Gly Thr Leu Ser Ser Val Thr Ser Ala Arg Ala Leu Arg
 305 310 315 320
 Pro Pro His Gly Pro Pro Arg Pro Gly Ala Leu Thr Pro Thr Pro Ser
 325 330 335
 Leu Ser Ser Gln Ala Leu Pro Ser Pro Arg Leu Pro Thr Thr Asp Gly
 340 345 350
 Ala His Pro Gln Pro Ile Ser Pro Ile Pro Gly Gly Val Ser Ser Ser
 355 360 365
 Gly Leu Ser Arg Met Gly Ala Val Pro Val Met Val Pro Ala Gln Ser
 370 375 380
 Gln Ala Gly Ser Leu Val
 385 390

<210> 499
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 499
 Met Pro Arg Asp Ala Ser Leu Ala Arg Arg Ala Cys Leu Ser Leu Leu
 1 5 10 15
 Leu His Leu Ser Trp Phe Pro Pro Cys Ser Ala Pro Gly Val Ile Phe
 20 25 30
 Ser His Ser Gly Tyr Gln Gly Phe Tyr His Ile Gly Phe Pro Lys Pro
 35 40 45
 His Ser Asn Ser Pro Leu Ser Gly Lys Pro
 50 55

<210> 500
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 500
 Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly

1	5	10	15												
Thr	Ala	Trp	Ala	Arg	Arg	Ser	Gln	Asp	Leu	His	Cys	Gly	Ala	Cys	Arg
			20					25					30		
Ala	Leu	Val	Asp	Glu	Leu	Glu	Trp	Glu	Ile	Ala	Gln	Val	Asp	Pro	Lys
		35					40					45			
Lys	Thr	Ile	Gln	Met	Gly	Ser	Phe	Arg	Ile	Asn	Pro	Asp	Gly	Ser	Gln
	50					55					60				
Ser	Val	Val	Glu	Val	Thr	Val	Thr	Val	Pro	Pro	Asn	Lys	Val	Ala	His
	65					70				75					80
Ser	Gly	Phe	Gly												

<210> 501
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 501
Met Gly Ser Ala Ala Leu Glu Ile Leu Gly Leu Val Leu Cys Leu Val
1 5 10 15
Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
20 25 30
Thr Ala Phe Leu Asp His Asn Ile Val Thr Ala Gln Thr Thr Trp Lys
35 40 45
Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly Thr Cys Ser Ala
50 55 60
Lys Cys Thr Thr Arg Cys Trp Leu
65 70

<210> 502
 <211> 178
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (157)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 502
 Met Ala Ala Pro Arg Gly Arg Ala Ala Pro Trp Thr Thr Ala Leu Leu
 1 5 10 15
 Leu Leu Leu Ala Ser Gln Val Leu Ser Pro Gly Ser Cys Ala Asp Glu
 20 25 30
 Glu Glu Val Pro Glu Glu Trp Val Leu Leu His Val Val Gln Gly Gln
 35 40 45
 Ile Gly Ala Gly Asn Tyr Ser Tyr Leu Arg Leu Asn His Glu Gly Lys
 50 55 60
 Ile Val Leu Arg Met Arg Ser Leu Lys Gly Asp Asn Asp Leu Tyr Val
 65 70 75 80
 Ser Ala Ser Ser Leu His Pro Ser Phe Asp Asp Tyr Glu Leu Gln Ser
 85 90 95
 Ala Thr Cys Gly Pro Asp Ala Val Ser Ile Pro Ala His Phe Arg Arg
 100 105 110
 Pro Val Gly Ile Gly Val Tyr Gly His Pro Ser His Leu Glu Ser Glu
 115 120 125
 Phe Glu Met Lys Val Tyr Tyr Asp Gly Thr Val Glu Gln His Pro Phe
 130 135 140
 Gly Glu Ala Ala Tyr Pro Ala Asp Gly Gln Met Pro Xaa Arg Ser Thr
 145 150 155 160
 Leu Val Pro Arg Lys Thr Pro Arg Lys Xaa Xaa Asn Leu Phe Ser Tyr
 165 170 175
 Xaa Tyr

<210> 503
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 503
 Thr Ala Ile Phe Phe Leu Leu Val
 1 5

<210> 504
 <211> 130
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 504
 Met Leu Met Pro Val His Phe Leu Leu Leu Leu Leu Leu Gly
 1 5 10 15
 Gly Pro Arg Thr Gly Leu Pro His Lys Phe Tyr Lys Ala Lys Pro Ile
 20 25 30
 Phe Ser Cys Leu Asn Thr Ala Leu Ser Glu Ala Glu Lys Gly Gln Trp
 35 40 45
 Glu Asp Ala Ser Leu Leu Ser Lys Arg Ser Phe His Tyr Leu Arg Xaa
 50 55 60
 Xaa Thr Pro Leu Arg Glu Arg Arg Arg Arg Ala Lys Arg Lys Arg Leu
 65 70 75 80
 Ser Pro Ser Leu Gly Pro Gly Val Glu Pro Glu Ala Pro Gly Thr Asp
 85 90 95
 Thr Cys Pro Lys His Ser Pro Gly Glu Ser His Ala Arg Thr Arg Pro
 100 105 110
 Arg Val Pro Thr Ala Pro Ser Ser Pro Cys Pro Ser Thr Ser Pro Pro
 115 120 125
 Thr Ser
 130

<210> 505
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 505

Met Arg Arg Leu Leu Leu Ala Leu Pro Phe Ala Leu Leu Pro Leu Ala
1 5 10 15
Val Ala His Ala His Glu Asp His Asp His Glu His Gly Ser Leu Gly
20 25 30
Ala His Glu His Gly Val Gly Arg Leu Asn Ala Val Leu Asp Gly Gln
35 40 45
Ala Leu Glu Leu Glu Leu Asp Ser Pro Ala Met Asn Leu Val Gly Phe
50 55 60
Glu His Val Ala Thr Ser Ala Ala Asp Lys Ala Lys Val Ala Ala Val
65 70 75 80
Arg Lys Gln Leu Glu Asn Pro Ser Gly Pro Val Gln Pro Ala Gln Ser
85 90 95
Arg Ser Cys Val Val Ser Asn Gln Gly Ile Asn Xaa Arg Cys Ser
100 105 110

<210> 506

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring amino acids

<400> 506

Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val
1 5 10 15
Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu
20 25 30
Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His
35 40 45
His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly
50 55 60
Gly Asp Glu Pro Leu Xaa Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu
65 70 75 80
Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu
85 90 95
Ala Ile Tyr Arg Leu Arg Ala Val Arg
100 105

<210> 507
 <211> 413
 <212> PRT
 <213> Homo sapiens

<400> 507

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Met Arg Arg Gly Cys Ala Val Leu Gly Ala Leu Gly Leu Leu Ala Gly
  1           5           10           15

Ala Gly Val Gly Ser Trp Leu Leu Val Leu Tyr Leu Cys Pro Ala Ala
          20           25           30

Ser Gln Pro Ile Ser Gly Thr Leu Gln Asp Glu Glu Ile Thr Leu Ser
          35           40           45

Cys Ser Glu Ala Ser Ala Glu Glu Ala Leu Leu Pro Ala Leu Pro Lys
          50           55           60

Thr Val Ser Phe Arg Ile Asn Ser Glu Asp Phe Leu Leu Glu Ala Gln
          65           70           75           80

Val Arg Asp Gln Pro Arg Trp Leu Leu Val Cys His Glu Gly Trp Ser
          85           90           95

Pro Ala Leu Gly Leu Gln Ile Cys Trp Ser Leu Gly His Leu Arg Leu
          100          105          110

Thr His His Lys Gly Val Asn Leu Thr Asp Ile Lys Leu Asn Ser Ser
          115          120          125

Gln Glu Phe Ala Gln Leu Ser Pro Arg Leu Gly Gly Phe Leu Glu Glu
          130          135          140

Ala Trp Gln Pro Arg Asn Asn Cys Thr Ser Gly Gln Val Val Ser Leu
          145          150          155          160

Arg Cys Ser Glu Cys Gly Ala Arg Pro Leu Ala Ser Arg Ile Val Gly
          165          170          175

Gly Gln Ser Val Ala Pro Gly Arg Trp Pro Trp Gln Ala Ser Val Ala
          180          185          190

Leu Gly Phe Arg His Thr Cys Gly Gly Ser Val Leu Ala Pro Arg Trp
          195          200          205

Val Val Thr Ala Ala His Cys Met His Ser Phe Arg Leu Ala Arg Leu
          210          215          220

Ser Ser Trp Arg Val His Ala Gly Leu Val Ser His Ser Ala Val Arg
          225          230          235          240

Pro His Gln Gly Ala Leu Val Glu Arg Ile Ile Pro His Pro Leu Tyr
          245          250          255

Ser Ala Gln Asn His Asp Tyr Asp Val Ala Leu Leu Arg Leu Gln Thr
```

260										265										270										
Ala	Leu	Asn	Phe	Ser	Asp	Thr	Val	Gly	Ala	Val	Cys	Leu	Pro	Ala	Lys															
		275					280					285																		
Glu	Gln	His	Phe	Pro	Lys	Gly	Ser	Arg	Cys	Trp	Val	Ser	Gly	Trp	Gly															
	290					295					300																			
His	Thr	His	Pro	Ser	His	Thr	Tyr	Ser	Ser	Asp	Met	Leu	Gln	Asp	Thr															
305					310					315					320															
Val	Val	Pro	Leu	Phe	Ser	Thr	Gln	Leu	Cys	Asn	Ser	Ser	Cys	Val	Tyr															
			325						330					335																
Ser	Gly	Ala	Leu	Thr	Pro	Arg	Met	Leu	Cys	Ala	Gly	Tyr	Leu	Asp	Gly															
		340					345						350																	
Arg	Ala	Asp	Ala	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Pro															
	355					360						365																		
Asp	Gly	Asp	Thr	Trp	Arg	Leu	Val	Gly	Val	Val	Ser	Trp	Gly	Arg	Gly															
	370					375					380																			
Cys	Ala	Glu	Pro	Asn	His	Pro	Gly	Val	Tyr	Ala	Lys	Val	Ala	Glu	Phe															
385					390					395					400															
Leu	Asp	Trp	Ile	His	Asp	Thr	Ala	Gln	Asp	Ser	Leu	Leu																		
				405					410																					

<210> 508

<211> 941

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (807)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (809)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (815)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (819)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu
 1 5 10 15
 Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
 20 25 30
 Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro
 35 40 45
 Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
 50 55 60
 Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
 65 70 75 80
 Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
 85 90 95
 Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
 100 105 110
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
 115 120 125
 Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
 130 135 140
 Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
 145 150 155 160
 Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
 165 170 175
 Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro
 180 185 190
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg
 195 200 205
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser
 210 215 220
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val
 225 230 235 240
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser
 245 250 255
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val
 260 265 270
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr
 275 280 285
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro
 290 295 300

Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu
 305 310 315 320
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala
 325 330 335
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala
 340 345 350
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp
 355 360 365
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe
 370 375 380 \
 Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe
 385 390 395 400
 Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser
 405 410 415
 His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met
 420 425 430
 Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu
 435 440 445
 Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr
 450 455 460
 Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp
 465 470 475 480
 Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly
 485 490 495
 Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln
 500 505 510
 Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg
 515 520 525
 Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met
 530 535 540
 Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly
 545 550 555 560
 Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met
 565 570 575
 Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro
 580 585 590
 Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr
 595 600 605

Ile	Val	His	Tyr	Glu	Asp	Asp	Gly	Trp	Asp	Ser	Leu	Thr	Gly	Leu	Leu	610	615	620
Lys	Gly	Thr	His	Thr	Ala	Val	Ser	Ser	Asn	Asp	Arg	Ala	Ser	Leu	Ile	625	630	635
Asn	Asn	Ala	Phe	Gln	Leu	Val	Ser	Ile	Gly	Lys	Leu	Ser	Ile	Glu	Lys	645	650	655
Ala	Leu	Asp	Leu	Ser	Leu	Tyr	Leu	Lys	His	Glu	Thr	Glu	Ile	Met	Pro	660	665	670
Val	Phe	Gln	Gly	Leu	Asn	Glu	Leu	Ile	Pro	Met	Tyr	Lys	Leu	Met	Glu	675	680	685
Lys	Arg	Asp	Met	Asn	Glu	Val	Glu	Thr	Gln	Phe	Lys	Ala	Phe	Leu	Ile	690	695	700
Arg	Leu	Leu	Arg	Asp	Leu	Ile	Asp	Lys	Gln	Thr	Trp	Thr	Asp	Glu	Gly	705	710	715
Ser	Val	Ser	Glu	Arg	Met	Leu	Arg	Ser	Glu	Leu	Leu	Leu	Leu	Ala	Cys	725	730	735
Val	His	Asn	Tyr	Gln	Pro	Cys	Val	Gln	Arg	Ala	Glu	Gly	Tyr	Phe	Arg	740	745	750
Lys	Trp	Lys	Glu	Ser	Asn	Gly	Asn	Leu	Ser	Leu	Pro	Val	Asp	Val	Thr	755	760	765
Leu	Ala	Val	Phe	Ala	Val	Gly	Ala	Gln	Ser	Thr	Glu	Gly	Trp	Asp	Phe	770	775	780
Leu	Tyr	Ser	Lys	Tyr	Gln	Phe	Ser	Leu	Ser	Ser	Thr	Glu	Lys	Ser	Gln	785	790	795
Ile	Glu	Phe	Ala	Leu	Cys	Xaa	Pro	Xaa	Asn	Lys	Glu	Lys	Leu	Xaa	Trp	805	810	815
Leu	Leu	Xaa	Glu	Ser	Phe	Lys	Gly	Asp	Lys	Ile	Lys	Thr	Gln	Glu	Phe	820	825	830
Pro	Gln	Ile	Leu	Thr	Leu	Ile	Gly	Arg	Asn	Pro	Val	Gly	Tyr	Pro	Leu	835	840	845
Ala	Trp	Gln	Phe	Leu	Arg	Lys	Asn	Trp	Asn	Lys	Leu	Val	Gln	Lys	Phe	850	855	860
Glu	Leu	Gly	Ser	Ser	Ser	Ile	Ala	His	Met	Val	Met	Gly	Thr	Thr	Asn	865	870	875
Gln	Phe	Ser	Thr	Arg	Thr	Arg	Leu	Glu	Glu	Val	Lys	Gly	Phe	Phe	Ser	885	890	895
Ser	Leu	Lys	Glu	Asn	Gly	Ser	Gln	Leu	Arg	Cys	Val	Gln	Gln	Thr	Ile	900	905	910

Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys
 915 920 925

Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 509
 <211> 264
 <212> PRT
 <213> Homo sapiens

<400> 509
 Met Pro Phe Arg Leu Leu Ile Pro Leu Gly Leu Leu Cys Ala Leu Leu
 1 5 10 15
 Pro Gln His His Gly Ala Pro Gly Pro Asp Gly Ser Ala Pro Asp Pro
 20 25 30
 Ala His Tyr Arg Glu Arg Val Lys Ala Met Phe Tyr His Ala Tyr Asp
 35 40 45
 Ser Tyr Leu Glu Asn Ala Phe Pro Phe Asp Glu Leu Arg Pro Leu Thr
 50 55 60
 Cys Asp Gly His Asp Thr Trp Gly Ser Phe Ser Leu Thr Leu Ile Asp
 65 70 75 80
 Ala Leu Asp Thr Leu Leu Ile Leu Gly Asn Val Ser Glu Phe Gln Arg
 85 90 95
 Val Val Glu Val Leu Gln Asp Ser Val Asp Phe Asp Ile Asp Val Asn
 100 105 110
 Ala Ser Val Phe Glu Thr Asn Ile Arg Val Val Gly Gly Leu Leu Ser
 115 120 125
 Ala His Leu Leu Ser Lys Lys Ala Gly Val Glu Val Glu Ala Gly Trp
 130 135 140
 Pro Cys Ser Gly Pro Leu Leu Arg Met Ala Glu Glu Ala Ala Arg Lys
 145 150 155 160
 Leu Leu Pro Ala Phe Gln Thr Pro Thr Gly Met Pro Tyr Gly Thr Val
 165 170 175
 Asn Leu Leu His Gly Val Asn Pro Gly Glu Thr Pro Val Thr Cys Thr
 180 185 190
 Ala Gly Ile Gly Thr Phe Ile Val Glu Phe Ala Thr Leu Ser Ser Leu
 195 200 205
 Thr Gly Asp Pro Val Phe Glu Asp Val Ala Arg Val Ala Leu Met Arg
 210 215 220
 Leu Trp Glu Ser Arg Ser Asp Ile Gly Leu Val Gly Asn His Ile Asp

Arg Thr Trp Pro His Arg Ser Pro Ser Arg Gly Ser Ser Ser Arg Asp
 35 40 45
 Lys Asp Arg Ser Ala Thr Val Ser Ser Ser ValPro Met Pro Ala Gly
 50 55 60
 Gly Lys Gly Ser His Pro Ser Ser Thr Pro Gln Arg Val Pro Asn Arg
 65 70 75 80
 Leu Ile His Glu Lys Ser Pro Tyr Leu Leu Gln His AlaTyr Asn Pro
 85 90 95
 Val Asp Trp Tyr Pro Trp Gly Gln Glu Ala Phe Asp Lys Ala Arg Lys
 100 105 110
 Glu Asn Lys Pro Ile Phe Leu Ser Val Gly Tyr Ser Thr CysHis Trp
 115 120 125
 Cys His Met Met Glu Glu Glu Ser Phe Gln Asn Glu Glu Ile Gly Arg
 130 135 140
 Leu Leu Ser Glu Asp Phe Val Ser Val Lys Val Asp Arg Glu Glu Arg
 145 150 155 160
 Pro Asp Val Asp Lys Val Tyr Met Thr Phe Val Gln Ala Thr Ser Ser
 165 170 175
 Gly Gly Gly Trp Pro Met Asn Val Trp Leu Thr Pro Asn Leu Gln Pro
 180 185 190
 Phe Val Gly Gly Thr Ile Xaa Leu Leu Lys Asp Gly Leu Xaa Arg Val
 195 200 205
 Gly Ser Ala Gln Cys Xaa
 210

<210> 512
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 512
 Met Leu Gly Ala Arg Ala Trp Leu Gly Arg Val Leu Leu Leu Pro Arg
 1 5 10 15
 Ala Gly Ala Gly Leu Ala Ala Ser Arg Arg Ser Ala Cys Ser Pro Thr
 20 25 30
 Ser Arg Leu Asn Ser Leu Arg Ser Leu Ile Pro
 35 40

<210> 513
 <211> 333

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (227)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 513
 Met Leu Thr Gly Ile Ala Val Gly Ala Leu Leu Ala LeuAla Leu Val
 1 5 10 15
 Gly Val Leu Ile Leu Phe Met Phe Arg Arg Leu Arg Gln Phe Arg Gln
 20 25 30
 Ala Gln Pro Thr Pro Gln Tyr Arg Phe Arg Lys Arg Asp LysVal Met
 35 40 45
 Phe Tyr Gly Arg Lys Ile Met Arg Lys Val Thr Thr Leu Pro Asn Thr
 50 55 60
 Leu Val Glu Asn Thr Ala Leu Pro Arg Gln Arg Ala Arg Lys Arg Thr
 65 70 75 80
 Lys Val Leu Ser Leu Ala Lys Arg Ile Leu Arg Phe Lys Lys Glu Tyr
 85 90 95
 Pro Gly Leu Xaa Pro Lys Asp Pro Arg Pro Ser Leu Leu Glu Xaa Asp
 100 105 110
 Phe Thr Glu Phe Asp Val Lys Asn Ser His Leu Pro Ser Glu Val Leu
 115 120 125
 Tyr Met Leu Lys Asn Val Arg Val Leu Gly His Phe Glu Lys Pro Leu
 130 135 140
 Phe Leu Glu Leu Cys Lys His Ile Val Phe Val Gln Leu Gln Glu Gly
 145 150 155 160
 Glu His Val Phe Gln Pro Arg Glu Pro Asp Pro Ser Ile Cys Val Val
 165 170 175
 Gln Asp Gly Arg Leu Glu Val Cys Ile Gln Asp Thr Asp Gly Thr Glu
 180 185 190
 Val Val Val Lys Glu Val Leu Ala Gly Asp Ser Val His Ser Leu Leu
 195 200 205

Ser Ile Leu Asp Ile Ile Thr Gly His Ala Ala Pro Tyr Lys Thr Val
 210 215 220
 Ser Val Xaa Ala Ala Ile Pro Ser Thr Ile Leu Arg Leu Pro Ala Ala
 225 230 235 240
 Ala Phe His Gly Val Phe Glu Lys Tyr Pro Glu Thr Leu Val Arg Val
 245 250 255
 Val Gln Ile Ile Met Val Arg Leu Gln Arg Val Thr Phe Leu Ala Leu
 260 265 270
 His Asn Tyr Leu Gly Leu Thr Thr Glu Leu Phe Asn Ala Glu Ser Gln
 275 280 285
 Ala Ile Pro Leu Val Ser Val Ala Ser Val Ala Ala Gly Lys Ala Lys
 290 295 300
 Lys Gln Val Phe Tyr Gly Glu Glu Glu Arg Leu Lys Lys Pro Pro Arg
 305 310 315 320
 Leu Gln Glu Ser Cys Asp Ser Asp His Gly Gly Gly Arg
 325 330

<210> 514
 <211> 415
 <212> PRT
 <213> Homo sapiens

<400> 514
 Val Gly Leu Val Ser Met Leu Gly Ile Pro Ile Pro Gly Ala Glu Gly
 1 5 10 15
 Ala Pro Val Leu Asn Ser Leu Val Phe Leu Ser Gly Gln Ser Thr Pro
 20 25 30
 Thr Gln Lys Gly Val Gly Ile Ala Gly Ala Val Cys Val Ser Ser Lys
 35 40 45
 Leu Arg Pro Arg Gly Gln Cys Arg Leu Glu Phe Ser Leu Ala Trp Asp
 50 55 60
 Met Pro Arg Ile Met Phe Gly Ala Lys Gly Gln Val His Tyr Arg Arg
 65 70 75 80
 Tyr Thr Arg Phe Phe Gly Gln Asp Gly Asp Ala Ala Pro Ala Leu Ser
 85 90 95
 His Tyr Ala Leu Cys Arg Tyr Ala Glu Trp Glu Glu Arg Ile Ser Ala
 100 105 110
 Trp Gln Ser Pro Val Leu Asp Asp Arg Ser Leu Pro Ala Trp Tyr Lys
 115 120 125

Ser Ala Leu Phe Asn Glu Leu Tyr Phe Leu Ala Asp Gly Gly Thr Val
 130 135 140
 Trp Leu Glu Val Leu Glu Asp Ser Leu Pro Glu Glu Leu Gly Arg Asn
 145 150 155 160
 Met Cys His Leu Arg Pro Thr Leu Arg Asp Tyr Gly Arg Phe Gly Tyr
 165 170 175
 Leu Glu Gly Gln Glu Tyr Arg Met Tyr Asn Thr Tyr Asp Val His Phe
 180 185 190
 Tyr Ala Ser Phe Ala Leu Ile Met Leu Trp Pro Lys Leu Glu Leu Ser
 195 200 205
 Leu Gln Tyr Asp Met Ala Leu Ala Thr Leu Arg Glu Asp Leu Thr Arg
 210 215 220
 Arg Arg Tyr Leu Met Ser Gly Val Met Ala Pro Val Lys Arg Arg Asn
 225 230 235 240
 Val Ile Pro His Asp Ile Gly Asp Pro Asp Asp Glu Pro Trp Leu Arg
 245 250 255
 Val Asn Ala Tyr Leu Ile His Asp Thr Ala Asp Trp Lys Asp Leu Asn
 260 265 270
 Leu Lys Phe Val Leu Gln Val Tyr Arg Asp Tyr Tyr Leu Thr Gly Asp
 275 280 285
 Gln Asn Phe Leu Lys Asp Met Trp Pro Val Cys Leu Ala Val Met Glu
 290 295 300
 Ser Glu Met Lys Phe Asp Lys Asp His Asp Gly Leu Ile Glu Asn Gly
 305 310 315 320
 Gly Tyr Ala Asp Gln Thr Tyr Asp Gly Trp Val Thr Thr Gly Pro Ser
 325 330 335
 Ala Tyr Cys Gly Gly Leu Trp Leu Ala Ala Val Ala Val Met Val Gln
 340 345 350
 Met Ala Ala Leu Cys Gly Ala Gln Asp Ile Gln Asp Lys Phe Ser Ser
 355 360 365
 Ile Leu Ser Arg Gly Gln Glu Ala Tyr Glu Arg Leu Leu Trp Asn Gly
 370 375 380
 Arg Tyr Tyr Asn Tyr Asp Ser Ser Ser Arg Pro Gln Ser Arg Ser Val
 385 390 395 400
 Met Ser Asp Gln Cys Ala Gly Gln Trp Phe Leu Lys Ala Cys Gly
 405 410 415

<210> 515

<211> 112
 <212> PRT
 <213> Homo sapiens

<400> 515
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
 1 5 10 15
 Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
 20 25 30
 Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
 35 40 45
 Cys Met Asp Cys Ser Thr Ser Cys Pro Leu Pro Ala Ala Leu Ala His
 50 55 60
 Pro Trp Gly Arg Ser Glu Pro Asp Leu Arg Ala Gly Ala Ala Phe Trp
 65 70 75 80
 Leu Phe Gly Leu Glu Thr Met Pro Gln Arg Glu Lys Phe Thr Thr Pro
 85 90 95
 Ile Glu Glu Thr Gly Gly Glu Gly Cys Pro Ala Val Ala Leu Ile Gln
 100 105 110

<210> 516
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 516
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
 1 5 10 15
 Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
 20 25 30
 Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
 35 40 45
 Cys Met Asp Cys Ser Thr Ser Cys Pro Leu Pro Ala Ala Leu Ala His
 50 55 60
 Pro Trp Gly Arg Ser Glu Pro Asp Leu Arg Ala Gly Ala Ala Phe Trp
 65 70 75 80
 Leu Phe Gly Leu Glu Thr Met Pro Gln Glu Arg Glu Val His His Pro
 85 90 95
 His Arg Gly Asp Arg Arg Arg Gly Leu Pro Ser Cys Gly Ala Asp Pro
 100 105 110

Val Thr Met Cys Pro Leu Pro Ala Gly Ala Arg Pro Leu Ile Ile His
115 120 125

Ser Ser Ile Leu Glu Pro Val Ser Ala Ser Gln Thr Arg Arg Glu Pro
130 135 140

Ser Ser Ser Asn His Lys Gly Gly Gly Gly Arg
145 150 155

<210> 517

<211> 153

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring amino acids

<400> 517

Met Ala Ala Thr Gln Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys
1 5 10 15

Phe Val Leu Val Leu Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser
20 25 30

Ser Gly Ser Gln Thr Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val
35 40 45

Tyr Thr Ala Ser Gln Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp
50 55 60

Gly Ala Gly Leu Trp Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu
65 70 75 80

Pro Pro Asp Gly Trp Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg
85 90 95

Pro Xaa Asp His Leu Gln His Asp His Leu Asp Ser Thr His Glu Thr
100 105 110

Thr Lys Tyr Leu Ser Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr
115 120 125

Ser Pro Asp Phe Ser His Ser Lys Glu Trp Phe His Asp Arg Asp Leu
130 135 140

Gly Pro Asn Thr Thr Ile Lys Leu Ser
145 150

<210> 518

<211> 47

<212> PRT
<213> Homo sapiens

<400> 518

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala
1 5 10 15
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
20 25 30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly
35 40 45

<210> 519
<211> 17
<212> PRT
<213> Homo sapiens

<400> 519

Met Ser Lys Ala Arg Phe Pro Phe Leu Leu Ser Leu Arg Trp Phe Ser
1 5 10 15
Ala

<210> 520
<211> 181
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring amino acids

<400> 520

Met Ala Asp Pro His Val Ser Phe Leu Ser Phe Arg Gln Leu Phe Ser
1 5 10 15
Trp Ala Ala Val Ile Leu Leu Arg Gly Ile Leu Gly Thr Val Ala Pro
20 25 30
Pro Pro Cys Pro Cys Val Leu Asp Leu Ala Val Tyr Pro Leu His Leu
35 40 45
Pro Val Glu Ala Pro Cys Leu Glu Val Val Phe Lys Gln Lys Asn Gly
50 55 60
Lys Asp Asn Cys Leu Val Phe Tyr Pro Asp Pro Ile Pro Leu Arg Gly
65 70 75 80
Ser Leu Leu Gly Pro Phe Ile Lys Asn Gln Cys His Ser Ser Val Ile
85 90 95

Pro Leu Ser Asp Ser Ala Thr Ser Lys Ala Arg Ala Leu Xaa Leu Pro
 100 105 110
 Gly Arg Glu Thr Val Leu Ser Val Leu Pro Val Phe Ser Ser Pro Thr
 115 120 125
 Leu Pro Arg Thr His Ala Leu Gly Asp Ser Leu Gly Val Pro Gly Leu
 130 135 140
 Leu Val Cys Ser Glu Thr Ser Thr Leu Asn Asp His Trp Cys Cys Arg
 145 150 155 160
 Arg Ala Gly Ala Tyr Ile Pro Ile Asn Arg Arg Phe Ser His Leu Met
 165 170 175
 Pro Leu Ala Phe Ser
 180

<210> 521
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 521
 Met Ala Asp Pro His Val Ser Phe Leu Ser Phe Arg Gln Leu Phe Ser
 1 5 10 15
 Trp Ala Ala Val Ile Leu Leu Arg Gly Ile Leu Gly Thr Val Ala Pro
 20 25 30
 Pro Pro Cys Pro Cys Val Leu Asp Leu Ala Val Tyr Pro Leu His Leu
 35 40 45
 Pro Val Glu Ala Pro Cys Leu Glu Val Val Phe Lys Gln Lys Asn Gly
 50 55 60
 Lys Asp Asn Cys Leu Val Phe Tyr Pro Asp Pro Ile Pro Leu Arg Gly
 65 70 75 80
 Ser Leu Leu Gly Pro Phe Ile
 85

<210> 522
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 522
 Met Ala Asp Pro His Val Ser Phe Leu Ser Phe Arg Gln Leu Phe Ser
 1 5 10 15
 Trp Ala Ala Val Ile Leu Leu Arg Gly Ile Leu Gly Thr Val Ala Pro
 20 25 30
 Pro Pro Cys Pro Cys Val Leu Asp Leu Ala Val Tyr Pro Leu His Leu
 35 40 45
 Pro Val Glu Ala Pro Cys Xaa Glu Val Val Phe Lys Gln Lys Asn Gly
 50 55 60
 Lys Xaa Asn Cys Leu Val Phe Tyr Pro Asp Pro Ile Pro Leu Arg Gly
 65 70 75 80
 Ser Leu Leu Gly Pro Phe Ile
 85

<210> 523
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 523
 Met Leu Ile Tyr Trp Leu Gln Ser Ser Phe Ile Leu Ser Ala Phe Val
 1 5 10 15
 Leu Ile Asn Ser Pro Val Thr Thr Gly Ile Gln Lys Ser Cys Cys Lys
 20 25 30
 Phe Phe Pro Val Ser Ile Asn Leu Cys Phe Ala Ser Leu His Arg Met
 35 40 45
 Lys Val Val Thr Leu Val Ala Leu Gln Trp Leu Asn Ile Ala Leu Arg
 50 55 60
 Ser Ser
 65

<210> 524
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 524
 Met Ala Thr Ala Met Asp Trp Leu Pro Trp Ser Leu Leu Leu Phe Ser
 1 5 10 15

Leu Met Cys Glu Thr Ser Ala Phe Tyr Val Pro Gly Val Ala Pro Ile
 20 25 30
 Asn Phe His Gln Asn Asp Pro Val Glu Ile Lys Ala Val Lys Leu Thr
 35 40 45
 Ser Ser Arg Thr Gln Leu Pro Tyr Glu Tyr Tyr Ser Leu Pro Phe Cys
 50 55 60
 Gln Pro Ser Lys Ile Thr Tyr Lys Ala Glu Asn Leu Gly Glu Val Leu
 65 70 75 80
 Arg Gly Asp Arg Ile Val Asn Thr Pro Phe Gln Val Leu Met Asn Ser
 85 90 95
 Glu Lys Lys Cys Glu Val Leu Cys Ser Gln Ser Asn Lys Pro Val Thr
 100 105 110
 Leu Thr Val Glu Gln Ser Arg Leu Val Ala Glu Arg Ile Thr Glu Asp
 115 120 125
 Tyr Tyr Val His Leu Ile Ala Asp Asn Leu Pro Val Ala Thr Arg Leu
 130 135 140
 Glu Leu Tyr Ser Asn Arg Asp Ser Asp Asp Lys Lys Lys Glu Ser Asp
 145 150 155 160
 Ile Lys Trp Ala Ser Arg Trp Asp Thr Tyr
 165 170

<210> 525
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 525
 His Ala Ser Gly Ala Arg Arg Arg Leu Gln Ala Pro Pro Val Pro His
 1 5 10 15
 Asp Pro Gln Leu Pro Ala Gly Leu Arg His Ser Ala Val Leu Tyr Asp
 20 25 30
 Pro His Arg His Leu Cys Ser His Ala Trp Asp Ala Val Ala Leu Gln
 35 40 45
 Pro Gly Ser Ser His Asp His Ser Leu Leu Pro Leu His Val His Gly
 50 55 60
 Gly Val Trp Arg Ile Phe Cys Trp Pro Ser Val Pro His Phe Lys Arg
 65 70 75 80
 Pro Ser Val Glu Glu Arg Ser Leu Leu Tyr Gly Asn Ser Val Pro Trp
 85 90 95

Cys Gly Phe Trp His Leu Leu Arg Ile Glu Leu Leu His Leu Gly Lys
 100 105 110
 Ala Leu Ile Arg Ser Gly Ala Leu Ser His His Gly Gly Ser Ala Val
 115 120 125
 His Val Val Arg Asp Leu Pro Ala Pro Arg Leu Leu Gly Leu Leu Leu
 130 135 140
 Arg Leu Pro Lys Ala Ala Ile
 145 150

<210> 526
 <211> 120
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 526
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
 20 25 30
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
 35 40 45
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
 50 55 60
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
 65 70 75 80
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
 85 90 95
 Arg Leu Gln Ala Gln Ala Xaa Arg Arg Gly Tyr Leu Pro Arg Ser Cys
 100 105 110
 Met Ser Ser Met Ala Phe Phe Leu
 115 120

<210> 527
 <211> 269
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (257)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 527
 Met Gly Thr Val Ser Ser Arg Arg Ser Trp Trp Pro Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Leu Gly Pro Ala Gly Ala Arg Ala Gln Glu
 20 25 30
 Asp Glu Asp Gly Asp Tyr Glu Glu Leu Val Leu Ala Leu Arg Ser Glu
 35 40 45
 Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala Thr Phe
 50 55 60
 His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr Val Val
 65 70 75 80
 Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr Ala Arg
 85 90 95
 Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys Ile Leu
 100 105 110
 His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met Ser Gly
 115 120 125
 Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr Ile Glu
 130 135 140
 Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu Glu Arg
 145 150 155 160
 Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro Asp Gly
 165 170 175
 Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln Ser Asp
 180 185 190
 His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu Asn Val
 195 200 205
 Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys Cys Asp
 210 215 220
 Ser His Gly Pro Thr Trp Gln Gly Trp Ser Ala Xaa Gly Met Pro Ala
 225 230 235 240
 Trp Pro Arg Val Pro Ala Cys Ala Ala Cys Ala Cys Phe Pro Lys Lys
 245 250 255

Xaa Pro Leu Leu Gly Gly Pro Pro Gln Lys Lys Gly Gly
 260 265

<210> 528
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 528
 Gly Trp Cys Ser Arg Arg Asp Ser Cys Trp Pro Ser Pro Pro Thr Met
 1 5 10 15
 Pro

<210> 529
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 529
 Thr Trp Trp Pro Pro Cys Pro Pro Ala Pro Met Gly Gln Val Gly Ser
 1 5 10 15
 Cys Phe Ala Gly Leu Cys Gly Gln His Thr Arg Gly Leu His Gly Trp
 20 25 30
 Pro Gln Pro Ser Pro Ala Ala Pro Gln Met Arg Ser Cys
 35 40 45

<210> 530
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 530
 Met Lys Pro Lys His Leu Glu Trp Cys Leu Ala His Ser Trp Cys Val
 1 5 10 15
 Ile Trp Leu Ser Phe Val Ser Pro Pro Thr Ser His Leu Glu Cys Asp
 20 25 30
 Gly Phe Pro Gly Ser Leu Leu Pro Pro Cys Glu Glu Gly Arg Cys Phe
 35 40 45
 Pro Phe Thr Phe His His His Asp Cys His Gly Cys Ser Pro Leu Gln
 50 55 60
 Ser Ser Pro Gly Gln His
 65 70

<210> 531
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 531
 Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
 1 5 10 15
 Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
 20 25 30
 Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
 35 40 45
 Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
 50 55 60
 Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
 65 70 75 80
 Tyr His Ser Gly Leu Trp Leu Gln Thr Leu Gln Lys Ile Thr Pro Phe
 85 90 95
 Leu Leu Leu Arg Cys Asn Gln Pro
 100

<210> 532
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 532
 Met Trp Leu Ser Pro Val Pro Gly Val Cys Ala Ala Val Leu Ala Leu
 1 5 10 15
 Ser Phe Trp Ile Ala Lys Phe Pro Gly Glu Gly Thr Ala Ile Ala Lys
 20 25 30
 Ala Leu Gly Arg Leu Lys
 35

<210> 533
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 533
 Met Glu Pro Ala Met Val Leu Lys Phe Leu Ser SerLeu Pro Glu Asn
 1 5 10 15

Leu Phe Leu Pro Ser Leu Leu Phe Phe Ala Trp Leu Cys Trp Asn Met
20 25 30

Val Cys Gly Ser Pro Val Ser Cys Pro Tyr
35 40

<210> 534
<211> 215
<212> PRT
<213> Homo sapiens

<400> 534
Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
1 5 10 15

Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
20 25 30

Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
35 40 45

Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
50 55 60

Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His
65 70 75 80

Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
85 90 95

Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
100 105 110

Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
115 120 125

Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
130 135 140

Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
145 150 155 160

Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
165 170 175

Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
180 185 190

Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
195 200 205

Thr Lys Val Arg Lys Lys Asn
210 215

<210> 535
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 535
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1 5 10 15
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Thr Lys Arg Val
 50 55 60
 Gln Gln Met Leu Leu Phe His Ser Tyr Gly Ile Ala Gln
 65 70 75

<210> 536
 <211> 406
 <212> PRT
 <213> Homo sapiens

<400> 536
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
 1 5 10 15
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
 20 25 30
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
 35 40 45
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
 50 55 60
 His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
 65 70 75 80
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
 85 90 95
 Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
 100 105 110
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
 115 120 125
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
 130 135 140

Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
 145 150 155 160
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
 165 170 175
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
 180 185 190
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
 195 200 205
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
 210 215 220
 Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 225 230 235 240
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 245 250 255
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 260 265 270
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 275 280 285
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 290 295 300
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 305 310 315 320
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 325 330 335
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 340 345 350
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 355 360 365
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 370 375 380
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 385 390 395 400
 Arg Asp Arg Asp Glu Leu
 405

<210> 537
 <211> 103
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring amino acids

<400> 537

Met Ala Phe Leu Leu Glu Arg Ser Gly Thr Leu Leu Ile Cys Ser Met
1 5 10 15

Trp Trp His His Gly Tyr Ser Asn Ile Thr Gly Thr Glu Gly Glu Arg
20 25 30

Arg Asn Leu Lys Arg Asn Lys Thr Asn Phe Arg Arg Phe Gln Asp Gly
35 40 45

Arg Ile Gly Thr Ala Pro Val Tyr Ser Ser Gln Cys Glu Arg Cys Arg
50 55 60

Arg Trp Val Ile Ser Ala Phe Pro Thr Glu Gln Thr Xaa His Gln Lys
65 70 75 80

Ile Ile Ser His Ala Trp Leu Gly Gly Ser His Ala His Gly Ala Ser
85 90 95

Leu Ile Ala Ser Thr Ala Val
100

<210> 538

<211> 60

<212> PRT

<213> Homo sapiens

<400> 538

Met Arg Lys Val Thr Ile Ser Lys Lys His Ala Leu Leu Leu Cys Phe
1 5 10 15

Gln Leu Phe Arg Cys Leu Leu Ser Met Tyr Ile Trp Ile Thr Phe Val
20 25 30

Leu Asp Gly Ser Cys Gly Ile His Cys Ser Leu Lys Pro Val Ser Phe
35 40 45

Pro Cys Thr Tyr His Ser Val His Ser Ser Thr Ser
50 55 60

<210> 539

<211> 18

<212> PRT

<213> Homo sapiens

<400> 539

Ile Pro Asn Glu Met Ala Gly Ser Ile Trp Pro Leu Gly Tyr Leu Ala
 1 5 10 15

Thr Leu

<210> 540
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 540
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro
 1 5 10 15

Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu
 20 25 30

Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr
 35 40 45

Arg Pro Ile Pro Ser Phe Leu Lys Ile
 50 55

<210> 541
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 541
 Gln Val Ser Leu Pro Thr Arg Leu Leu Gln Met Pro Gly Met GlyLeu
 1 5 10 15

Asp Ser Arg Phe Gln Ala Trp Xaa Pro Ser Pro Tyr Leu Gly Pro Gln
 20 25 30

Pro Arg Ala Pro Arg Pro Gly Leu Gln Pro Gly Pro Ser Leu Arg Gly
 35 40 45

Ala Glu Phe Arg Glu Ser Cys Pro Arg Ser Gln Lys Arg Gly Arg Glu
 50 55 60

Xaa Gly Arg Pro Cys Pro Gly Cys Arg Pro Gly Gly Trp Gly Leu Pro

65		70		75		80						
Ala	Arg	Leu	Gly	Gln	Pro	Gln	Leu	Gln	Thr	Gly	Pro	Gly
			85					90				

<210> 542
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 542
 Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys
 35 40 45
 Ser

<210> 543
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 543
 Met Leu Phe Cys Ile Leu Leu Tyr Thr Leu Gly Ser Ala Arg Cys His
 1 5 10 15
 His Leu Ser Phe Phe Leu Trp Gly Trp Ser Asn Pro Pro Glu Lys Thr
 20 25 30
 Pro Leu Ala Ser Trp Arg Gly Val Lys Ala Arg Leu Pro Gly Pro Gly
 35 40 45
 Cys Gln Leu Leu Gly Ala Ala Gly Ala Glu Ala Gly Ser Cys Gln Ala
 50 55 60
 Phe Ser Gln Gln Asp Ala Leu Ser Thr His Leu Gly Phe Arg Ile Pro
 65 70 75 80
 Leu Pro His Leu Gln Met Gly Gln Met Ser Pro Lys Pro Ala Ala Pro
 85 90 95
 Phe Cys Phe Thr Leu Ser Thr Glu

100

<210> 544
<211> 148
<212> PRT
<213> Homo sapiens

<400> 544
Met Val Trp Phe Ser Cys Trp Leu Leu Thr Gln Ser Ile Thr Val Ile
1 5 10 15
Leu Gly Ala Arg Gly Arg Tyr Gly Arg Leu Cys Val Leu Gln Gly Arg
20 25 30
His Cys Gly Leu Val Asp Lys Ser Gly Ser Pro Asn Pro Phe Ser Ala
35 40 45
Asp Val Leu Ala Val His Ser Gly Gln Val Ser His Ser Pro Glu Pro
50 55 60
Gln Arg Leu Tyr Gln Tyr Asp Glu Asn Lys Tyr Ser Thr Cys Leu Pro
65 70 75 80
His Gly Val Val Ser Ala Val Asn Glu Ile Met Tyr Met Lys His Leu
85 90 95
Val Tyr Leu Ala Pro Asn Lys Ser Ser Thr Thr Ser Ser Leu Ile Thr
100 105 110
Asn Lys Met Glu Leu Glu Gly Cys Ile Ser Leu Asn Lys Ile Leu Arg
115 120 125
Gln Ile Leu Gly Val Pro Val Phe Ile Leu Gln Leu Glu Ser Pro Pro
130 135 140
Ser Leu Phe Gly
145

<210> 545
<211> 72
<212> PRT
<213> Homo sapiens

<400> 545
Met Leu Val Leu Phe Lys Phe Leu Pro Leu Thr Ser Ser Gly Arg Phe
1 5 10 15
Leu Ser Val Thr Leu Tyr His Arg Val His His Gln Thr Phe Phe Ala
20 25 30
Gly Ala Lys Ser Phe Ser Pro Ala Ser Thr Leu Asn Leu Tyr Ile Cys
35 40 45

Ser Ser Gln Phe Gln Ser Leu Gln Lys Leu Tyr Cys Gly Val Ile Pro
50 55 60

Val Leu Arg Tyr Ala Ser Ile Glu
65 70

<210> 546
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring amino acids

<400> 546
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
1 5 10 15

Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
20 25 30

Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
35 40 45

Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
50 55 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
65 70 75 80

Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
85 90 95

Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
100 105 110

<210> 547
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (71)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 547
 Met Lys Thr Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
 100 105 110

<210> 548
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 548
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu
 115 120 125
 Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly
 130 135

<210> 549
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 549
 Leu Leu Val Val Leu Leu Ser
 1 5

<210> 550
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 550
 Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp
 1 5 10

<210> 551
 <211> 288
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

<222> (268)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (271)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (273)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (274)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (276)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (286)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 551
 Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu
 1 5 10 15

 Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp
 20 25 30

 Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly
 35 40 45

 Phe Val Phe Thr Lys Glu Ala Ser Leu Gu Ile Arg Asp Met Leu Leu
 50 55 60

 Ala Asn Lys Val Pro Ala Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys
 65 70 75 80

 Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gy Pro Glu Lys Thr
 85 90 95

 Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr
 100 105 110

 Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gy Asp Lys Val
 115 120 125

 Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe
 130 135 140

 Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr

145		150		155		160									
Asn	Pro	Glu	Val	Leu	Asp	Ile	Thr	Glu	Glu	Thr	Leu	His	Ser	Arg	Phe
				165					170					175	
Leu	Glu	Gly	Val	Arg	Asn	Val	Ala	Ser	Val	Cys	Leu	Gln	Ile	Gly	Tyr
			180					185					190		
Pro	Thr	Val	Ala	Ser	Val	Pro	His	Ser	Ile	Ile	Asn	Gly	Tyr	Lys	Arg
		195					200					205			
Val	Leu	Ala	Leu	Ser	Val	Glu	Thr	Asp	Tyr	Thr	Phe	Pro	Leu	Ala	Glu
	210					215					220				
Lys	Val	Lys	Ala	Phe	Leu	Ala	Asp	Pro	Ser	Ala	Phe	Val	Ala	Ala	Ala
225					230					235					240
Pro	Val	Ala	Ala	Ala	Thr	Thr	Ala	Ala	Pro	Ala	Ala	Ala	Ala	Ala	Pro
				245					250					255	
Ala	Lys	Val	Glu	Ala	Lys	Glu	Glu	Ser	Glu	Glu	Xaa	Asp	Glu	Xaa	Ile
			260					265					270		
Xaa	Xaa	Ser	Xaa	Ile	Ser	Lys	Ser	Asn	Asn	Ser	Ser	Gln	Xaa	Ile	Val
		275					280					285			

<210> 552
 <211> 554
 <212> PRT
 <213> Homo sapiens

<400> 552
 Gly Gly Gly Tyr Ala Leu Ala Leu Leu Val Leu Leu Leu Leu Gly Pro
 1 5 10 15
 Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu
 20 25 30
 Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe Gln
 35 40 45
 Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser His
 50 55 60
 Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser
 65 70 75 80
 Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gy Phe Trp Arg Thr Arg
 85 90 95
 Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His Tyr
 100 105 110

Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu Asn
115 120 125
Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly Leu
130 135 140
Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His Ser
145 150 155 160
Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr Ser
165 170 175
Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala Phe
180 185 190
Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe Ser
195 200 205
Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val Tyr
210 215 220
Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val His
225 230 235 240
Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg Lys
245 250 255
Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn Ser
260 265 270
Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn Glu
275 280 285
Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly Tyr
290 295 300
Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His Pro
305 310 315 320
Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr Leu
325 330 335
Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu Asn
340 345 350
Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln Pro
355 360 365
His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr Lys
370 375 380
Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr Thr
385 390 395 400
Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser Ala
405 410 415

Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu Ser
 420 425 430
 Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr Phe
 435 440 445
 Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro Asp
 450 455 460
 Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val Ala
 465 470 475 480
 Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe Pro His
 485 490 495
 Arg Gly Ala Pro His Arg Trp Pro Gly Gln Ala Ala Gly Gln Pro Tyr
 500 505 510
 Pro Ala Arg Pro Ser Val Pro Pro Thr Leu Ile Leu Ala Leu Ser Ser
 515 520 525
 Ser Cys Ser Cys Arg Phe Ser Leu Gly Arg Gly Ala Gln Gly Leu Phe
 530 535 540
 Leu Pro Leu Ala Leu Leu Arg Val Gly Phe
 545 550

<210> 553
 <211> 453
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (432)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 553
 Met Arg Met Ala Ser Ile Met Val Trp Val Met Ile Ile Met ~~Al~~ Ile
 1 5 10 15
 Leu Val Leu Gly Tyr Gly Ile Phe His Cys Tyr Met Glu Tyr Ser Arg
 20 25 30
 Leu Arg Gly Glu Ala Gly Ser Asp Val Ser Leu Val Asp Leu Gly ~~Pe~~
 35 40 45
 Gln Thr Asp Phe Arg Val Tyr Leu His Leu Arg Gln Thr Trp Leu Ala
 50 55 60
 Phe Met Ile Ile Leu Ser Ile Leu Glu Val Ile Ile Ile Leu Leu Leu
 65 70 75 80
 Ile Phe Leu Arg Lys Arg Ile Leu Ile Ala Ile Ala Leu Ile Lys Glu

85					90					95					
Ala	Ser	Arg	Ala	Val	Gly	Tyr	Val	Met	Cys	Ser	Leu	Leu	Tyr	Pro	Leu
			100					105					110		
Val	Thr	Phe	Phe	Leu	Leu	Cys	Leu	Cys	Ile	Ala	Tyr	Trp	Ala	Ser	Thr
		115					120					125			
Ala	Val	Phe	Leu	Ser	Thr	Ser	Asn	Glu	Ala	Val	Tyr	Lys	Ile	Phe	Asp
	130					135					140				
Asp	Ser	Pro	Cys	Pro	Phe	Thr	Ala	Lys	Thr	Cys	Asn	Pro	Glu	Thr	Phe
145					150					155					160
Pro	Ser	Ser	Asn	Glu	Ser	Arg	Gln	Cys	Pro	Asn	Ala	Arg	Cys	Gln	Phe
			165						170					175	
Ala	Phe	Tyr	Gly	Gly	Glu	Ser	Gly	Tyr	His	Arg	Ala	Leu	Leu	Gly	Leu
			180					185					190		
Gln	Ile	Phe	Asn	Ala	Phe	Met	Phe	Phe	Trp	Leu	Ala	Asn	Phe	Val	Leu
	195						200					205			
Ala	Leu	Gly	Gln	Val	Thr	Leu	Ala	Gly	Ala	Phe	Ala	Ser	Tyr	Tyr	Trp
	210					215					220				
Ala	Leu	Arg	Lys	Pro	Asp	Asp	Leu	Pro	Ala	Phe	Pro	Leu	Phe	Ser	Ala
225					230					235					240
Phe	Gly	Arg	Ala	Leu	Arg	Tyr	His	Thr	Gly	Ser	Leu	Ala	Phe	Gly	Ala
			245						250					255	
Leu	Ile	Leu	Ala	Ile	Val	Gln	Ile	Ile	Arg	Val	Ile	Leu	Glu	Tyr	Leu
		260					265					270			
Asp	Gln	Arg	Leu	Lys	Ala	Ala	Glu	Asn	Lys	Phe	Ala	Lys	Cys	Leu	Met
	275						280					285			
Thr	Cys	Leu	Lys	Cys	Cys	Phe	Trp	Cys	Leu	Glu	Lys	Phe	Ile	Lys	Phe
	290					295					300				
Leu	Asn	Arg	Asn	Ala	Tyr	Ile	Met	Ile	Ala	Ile	Tyr	Gly	Thr	Asn	Phe
305				310						315					320
Cys	Thr	Ser	Ala	Arg	Asn	Ala	Phe	Phe	Leu	Leu	Met	Arg	Asn	Ile	Ile
			325						330					335	
Arg	Val	Ala	Val	Leu	Asp	Lys	Val	Thr	Asp	Phe	Leu	Phe	Leu	Leu	Gly
		340						345					350		
Lys	Leu	Leu	Ile	Val	Gly	Ser	Val	Gly	Ile	Leu	Ala	Phe	Phe	Phe	Phe
	355						360					365			
Thr	His	Arg	Ile	Arg	Ile	Val	Gln	Asp	Thr	Ala	Pro	Pro	Leu	Asn	Tyr
	370				375						380				
Tyr	Trp	Val	Pro	Ile	Leu	Thr	Val	Ile	Val	Gly	Ser	Tyr	Leu	Ile	Ala

[illegible]

<210> 555
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 555
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
 1 5 10 15
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
 20 25 30
 Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
 35 40 45

<210> 556
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 556
 Ile Tyr Gln His Phe Ser Leu Trp Leu Gly
 1 5 10

<210> 557
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 557
 Met Phe Lys Met
 1

<210> 558
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 558
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30

Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Val Leu Pro Leu Ala Pro
 100 105 110
 Ala Gln Ser
 115

<210> 559
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 559
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60
 Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Val Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125
 Lys Ala His Ser Ser Glu Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160
 Trp Met Thr Ser Cys Ser Leu Pro Ala Thr Pro Arg Phe Pro

<210> 560
 <211> 228
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (209)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (214)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 560
 Met Val Pro Asn Trp Ile Gln Gly Arg Trp Asp Val Leu Leu Cys Val
 1 5 10 15
 Leu Thr Val Gly Val Leu Pro Ser Ile Gly Ser Arg Gly Gly Trp Phe
 20 25 30
 Gly Thr Gln Val Pro Cys Leu Ile Pro Gly Ala Leu Ala Ser Leu His
 35 40 45
 Arg Gly Thr Ala Leu Gln Leu Ser Tyr Pro Phe Ser Met Ala Gly Arg
 50 55 60

Thr Ala Glu Arg Pro Cys Ser Met Thr Asn His Ser Phe His Leu Leu
 65 70 75 80
 Ser Ile Tyr Trp Glu Leu Gly Thr Val Leu Ser Xaa Lys Arg Val Leu
 85 90 95
 Thr His Leu Leu Gln Gln Pro Gly Lys Ala Gly Ser Ser Val Ser Pro
 100 105 110
 Cys Ser Lys Leu Gly Asp Leu Glu His Arg Arg Ser Ser Ala Trp Leu
 115 120 125
 Lys Ala His Ser Ser Xaa Val Gln Ile Leu Cys Pro Ser Trp His Pro
 130 135 140
 Ser Leu Gly Gly Ser Gly Val Gly Ser Leu Gln Ser Val Pro Gly Gly
 145 150 155 160
 Trp Met Thr Lys Leu Gln Pro Ser Arg Xaa Pro Thr Ile Ser Ile Ala
 165 170 175
 Gln Trp Ser Gln Lys Glu Thr Asp His Phe Thr Asp Gln Arg Asn Lys
 180 185 190
 Gly Ala Xaa Leu Leu Asn Pro Gly Ala Ser Asp Arg Xaa Lys Pro Glu
 195 200 205
 Xaa Arg Thr Lys Lys Xaa Pro Val Asn Ser Glu Pro Gly Glu Thr Leu
 210 215 220
 Pro Phe Thr Asn
 225

<210> 561
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 561
 Asp Asn Phe Leu Leu Gly Val Ala TrpPhe Phe Arg Gly Arg Gly Ser
 1 5 10 15
 Ala His Val Gly Val Val Ser Arg Gln Lys Gln Trp Glu Glu Gly Thr
 20 25 30
 Ala Lys His Ala Ala Trp Asp Tyr Gly CysPro Gln Ser Cys Ser Phe
 35 40 45
 Ser Lys Gly Val Phe Cys Leu Phe Leu Arg Gln Gly His Thr Leu Ser
 50 55 60
 Pro Arg Met Glu Cys Ser Gly Pro Ile Leu Ala His Cys Asn LeuGlu
 65 70 75 80
 Leu Leu Gly Ser

<210> 562
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 562
 Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
 1 5 10 15
 Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
 20 25 30
 Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
 35 40 45
 Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
 50 55 60
 His Gly Lys Tyr Ser
 65

<210> 563
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring amino acids
 .
 <220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 563
 Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
 1 5 10 15
 Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
 20 25 30
 Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
 35 40 45
 Gln Tyr Phe Pro
 50

<210> 564
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 564
 Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asp Thr Gln
 1 5 10 15
 Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu
 20 25 30
 Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val
 35 40 45
 Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu
 50 55 60
 Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe
 65 70 75 80
 Val Tyr Val Leu Lys Gln
 85

<210> 565
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 565
 Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
 1 5 10 15
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30
 Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gl
 35 40 45
 Arg Arg Ser His Cys
 50

<210> 566
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 566

Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
 1 5 10 15
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
 20 25 30
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
 35 40 45
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
 50 55 60
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly
 65 70 75 80
 Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val
 85 90 95
 Gln

<210> 567
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 567
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
 1 5 10 15
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
 35 40 45
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala His
 115 120

<210> 568
 <211> 606

<212> PRT

<213> Homo sapiens

<400> 568

Met Thr Val Val Gly Asn Pro Arg Ser Trp Ser Øs Gln Trp Leu Pro
1 5 10 15
Ile Leu Ile Leu Leu Leu Gly Thr Gly His Gly Pro Gly Val Glu Gly
20 25 30
Val Thr His Tyr Lys Ala Gly Asp Pro Val Ile Leu Tyr Val Asn Lys
35 40 45
Val Gly Pro Tyr His Asn Pro Gln Glu Thr Tyr His Tyr Tyr Gln Leu
50 55 60
Pro Val Cys Cys Pro Glu Lys Ile Arg His Lys Ser Leu Ser Leu Gly
65 70 75 80
Glu Val Leu Asp Gly Asp Arg Met Ala Glu Ser Leu Tyr Glu Ile Arg
85 90 95
Phe Arg Glu Asn Val Glu Lys Arg Ile Leu Cys His Met Gln Leu Ser
100 105 110
Ser Ala Gln Val Glu Gln Leu Arg Gln Ala Ile Glu Glu Leu Tyr Tyr
115 120 125
Phe Glu Phe Val Val Asp Asp Leu Pro Ile Arg Gly Phe Val Gly Tyr
130 135 140
Met Glu Glu Ser Gly Phe Leu Pro His Ser His Lys Ile Gly Leu Trp
145 150 155 160
Thr His Leu Asp Phe His Leu Glu Phe His Gly Asp Arg Ile Ile Phe
165 170 175
Ala Asn Val Ser Val Arg Asp Val Lys Pro His Ser Leu Asp Gly Leu
180 185 190
Arg Pro Asp Glu Phe Leu Gly Leu Thr His Thr Tyr Ser Val Arg Trp
195 200 205
Ser Glu Thr Ser Val Glu Arg Arg Ser Asp Arg Arg Arg Gly Asp Asp
210 215 220
Gly Gly Phe Phe Pro Arg Thr Leu Glu Ile His Trp Leu Ser Ile Ile
225 230 235 240
Asn Ser Met Val Leu Val Phe Leu Leu Val Gly Phe Val Ala Val Ile
245 250 255
Leu Met Arg Val Leu Arg Asn Asp Leu Ala Arg Tyr Asn Leu Asp Glu
260 265 270
Glu Thr Thr Ser Ala Gly Ser Gly Asp Asp Phe Asp Gln Gly Asp Asn
275 280 285

Gly Trp Lys Ile Ile His Thr Asp Val Phe Arg Phe Pro Pro Tyr Arg
 290 295 300
 Gly Leu Leu Cys Ala Val Leu Gly Val Gly Ala Gln Phe Leu Ala Leu
 305 310 315 320
 Gly Thr Gly Ile Ile Val Met Ala Leu Leu Gly Met Phe Asn Val His
 325 330 335
 Arg His Gly Ala Ile Asn Ser Ala Ala Ile Leu Leu Tyr Ala Leu Thr
 340 345 350
 Cys Cys Ile Ser Gly Tyr Val Ser Ser His Phe Tyr Arg Gln Ile Gly
 355 360 365
 Gly Glu Arg Trp Val Trp Asn Ile Ile Leu Thr Thr Ser Leu Phe Ser
 370 375 380
 Val Pro Phe Phe Leu Thr Trp Ser Val Val Asn Ser Val His Trp Ala
 385 390 395 400
 Asn Gly Ser Thr Gln Ala Leu Pro Ala Thr Thr Ile Leu Leu Leu Leu
 405 410 415
 Thr Val Trp Leu Leu Val Gly Phe Pro Leu Thr Val Ile Gly Gly Ile
 420 425 430
 Phe Gly Lys Asn Asn Ala Ser Pro Phe Asp Ala Pro Cys Arg Thr Lys
 435 440 445
 Asn Ile Ala Arg Glu Ile Pro Pro Gln Pro Trp Tyr Lys Ser Thr Val
 450 455 460
 Ile His Met Thr Val Gly Gly Phe Leu Pro He Ser Ala Ile Ser Val
 465 470 475 480
 Glu Leu Tyr Tyr Ile Phe Ala Thr Val Trp Gly Arg Glu Gln Tyr Thr
 485 490 495
 Leu Tyr Gly Ile Leu Phe Phe Val Phe Aa Ile Leu Leu Ser Val Gly
 500 505 510
 Ala Cys Ile Ser Ile Ala Leu Thr Tyr Phe Gln Leu Ser Gly Glu Asp
 515 520 525
 Tyr Arg Trp Trp Trp Arg Ser Val Leu Ser Val Gly Sr Thr Gly Leu
 530 535 540
 Phe Ile Phe Leu Tyr Ser Val Phe Tyr Tyr Ala Arg Arg Ser Asn Met
 545 550 555 560
 Ser Gly Ala Val Gln Thr Val Glu Phe Phe Gly Tyr Ser Leu Leu Thr
 565 570 575
 Gly Tyr Val Phe Phe Leu Met Leu Gly Thr Ile Ser Phe Phe Ser Ser
 580 585 590

Leu Lys Phe Ile Arg Tyr Ile Tyr Val Asn Leu Lys Met Asp
 595 600 605

<210> 569
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 569
 Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
 1 5 10 15
 Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
 20 25 30
 Arg Pro Glu Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg
 35 40 45
 Ala Arg Leu Gln Gly Ser Ala Thr Ala Ala Glu Ala Ser Leu Leu Arg
 50 55 60
 Arg Thr His Leu Cys Ser Leu Ser Lys Ser Asp Thr Arg Leu His Glu
 65 70 75 80
 Leu His Arg Gly Pro Arg Ser Ser Arg Ala Leu Arg Pro Ala Ser Met
 85 90 95
 Asp Leu Leu Arg Pro His Trp Leu Glu Val Ser Arg Asp Ile Thr Gly
 100 105 110
 Pro Gln Ala Ala Pro Ser Ala Phe Pro His Gln Glu Leu Pro Arg Ala
 115 120 125
 Leu Pro Ala Ala Ala Ala Thr Ala Gly Cys Ala Gly Leu Glu Ala Thr
 130 135 140
 Tyr Ser Asn Val Gly Leu Ala Ala Leu Pro Gly Val Ser Leu Ala Ala
 145 150 155 160
 Ser Pro Val Val Ala Glu Tyr Ala Arg Val Gln Lys Arg Lys Gly Thr
 165 170 175
 His Arg Ser Pro Gln Glu Pro Gln Gln Gly Lys Thr Glu Val Thr Pro
 180 185 190
 Ala Ala Gln Val Asp Val Leu Tyr Ser Arg Val Cys Lys Pro Lys Arg
 195 200 205
 Arg Asp Pro Gly Pro Thr Thr Asp Pro Leu Asp Pro Lys Gly Gln Gly
 210 215 220
 Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
 225 230 235 240

Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
245 250 255

Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
260 265 270

Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
275 280 285

Pro Leu Pro Ala Ser Leu Pro
290 295

<210> 570
<211> 37
<212> PRT
<213> Homo sapiens

<400> 570
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
1 5 10 15

Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
20 25 30

Ser Pro Arg Thr Leu
35

<210> 571
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 571
Met Arg Phe Trp Phe Leu Val Phe Xaa Phe Phe Phe Pro Glu Ala
1 5 10 15

His Val Tyr Pro Thr Ser Trp Xaa Val Ser Glu Gln Gly Xaa Ala Thr
20 25 30

Ile Ser Val Thr Pro Gly Ile Leu Asn Trp Ile Phe Val Glu Glu Glu
35 40 45

Asn Asn Thr Val Leu Asp Phe Pro
50 55

<210> 572
<211> 106
<212> PRT
<213> Homo sapiens

<400> 572
Arg Ser Arg Ser Lys Pro Arg Cys Asn Cys Glu Ile Val Thr Ile Phe
1 5 10 15

Phe Ala Arg Phe Lys Ile Gly Pro Gly Arg His Arg Lys Arg Lys Ile
20 25 30

Pro Lys Leu Cys Ser Ser Gly Ser Thr Ile Gly Arg Val Tyr Ser Leu
35 40 45

Pro Gly Leu Leu Arg Arg Gly Ser Cys Leu Phe Gly Tyr Ile Thr Pro
50 55 60

Asp Trp Phe Val Leu Lys Ile Asn Val Ile Met Leu Val Ser Tyr Leu
65 70 75 80

Met Val Ser Leu Glu His Ser Pro Leu Ile Leu Phe Glu Arg Val Gly
85 90 95

Gly Arg Asp Cys Glu Gly Arg Glu Lys Cys
100 105

<210> 573
<211> 279
<212> PRT
<213> Homo sapiens

<400> 573
Glu Glu Arg Trp Lys Ser Pro Glu Val Arg Trp Ala Pro Gly Val Ala
1 5 10 15

Met Glu Glu Ser Gly Tyr Glu Ser Val Leu Cys Val Lys Pro Asp Val
20 25 30

His Val Tyr Arg Ile Pro Pro Arg Ala Thr Asn Arg Gly Tyr Arg Ala
35 40 45

Ala Glu Trp Gln Leu Asp Gln Pro Ser Trp Ser Gly Arg Leu Arg Ile
50 55 60

Thr Ala Lys Gly Gln Met Ala Tyr Ile Lys Leu Glu Asp Arg Thr Ser

65		70		75		80									
Gly	Glu	Leu	Phe	Ala	Gln	Ala	Pro	Val	Asp	Gln	Phe	Pro	Gly	Thr	Ala
				85					90					95	
Val	Glu	Ser	Val	Thr	Asp	Ser	Ser	Arg	Tyr	Phe	Val	Ile	Arg	Ile	Glu
			100					105					110		
Asp	Gly	Asn	Gly	Arg	Arg	Ala	Phe	Ile	Gly	Ile	Gly	Phe	Gly	Asp	Arg
		115					120					125			
Gly	Asp	Ala	Phe	Asp	Phe	Asn	Val	Ala	Leu	Gln	Asp	His	Phe	Lys	Trp
	130					135					140				
Val	Lys	Gln	Gln	Cys	Glu	Phe	Ala	Lys	Gln	Ala	Gln	Asn	Pro	Asp	Gln
145					150					155					160
Gly	Pro	Lys	Leu	Asp	Leu	Gly	Phe	Lys	Glu	Gly	Gln	Thr	Ile	Lys	Leu
			165						170					175	
Asn	Ile	Ala	Asn	Met	Lys	Lys	Lys	Glu	Gly	Ala	Ala	Gly	Asn	Pro	Arg
			180					185					190		
Val	Arg	Pro	Ala	Ser	Thr	Gly	Gly	Leu	Ser	Leu	Leu	Pro	Pro	Pro	Pro
		195					200					205			
Gly	Gly	Lys	Thr	Ser	Thr	Leu	Ile	Pro	Pro	Pro	Gly	Glu	Gln	Leu	Ala
	210					215					220				
Val	Gly	Gly	Ser	Leu	Val	Gln	Pro	Ala	Val	Ala	Pro	Ser	Ser	Gly	Gly
225					230					235					240
Ala	Pro	Val	Pro	Trp	Pro	Gln	Pro	Asn	Pro	Ala	Thr	Ala	Asp	Ile	Trp
				245					250					255	
Gly	Asp	Phe	Thr	Lys	Ser	Thr	Gly	Ser	Thr	Ser	Ser	Gln	Thr	Gln	Pro
			260					265					270		
Gly	Thr	Gly	Trp	Val	Gln	Phe									
		275													

<210> 574
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 574
 Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala
 1 5 10 15
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu
 20 25 30
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg
 35 40 45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu
 50 55 60
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys
 65 70 75 80
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe
 85 90 95
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu
 100 105 110
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala
 115 120 125
 Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys
 130 135 140
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala
 145 150 155 160
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val
 165 170 175
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Gl
 180 185 190
 Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu
 195 200 205
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu
 210 215 220
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu
 225 230 235 240
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
 245 250 255
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
 260 265 270
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg
 275 280 285
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
 290 295 300
 Leu
 305

<210> 575
 <211> 127
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring amino acids

<400> 575

Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
1 5 10 15

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Phe Arg Tyr
20 25 30

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
35 40 45

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
50 55 60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
65 70 75 80

Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
100 105 110

Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Xaa
115 120 125

<210> 576

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring amino acids

<400> 576

Met Cys Ala Phe Pro Trp Leu Leu Leu Leu Leu Leu Gln Glu Gly
1 5 10 15

Ser Gln Arg Arg Leu Trp Arg Trp Cys Gly Ser Glu Glu Val Val Ala
 20 25 30
 Val Leu Gln Glu Ser Ile Ser Leu Pro Leu Glu Ile Pro Pro Asp Glu
 35 40 45
 Glu Val Glu Asn Ile Ile Trp Ser Ser His Lys Ser Leu Ala Thr Val
 50 55 60
 Val Pro Gly Lys Glu Gly His Pro Ala Thr Ile Met Val Thr Asn Pro
 65 70 75 80
 His Tyr Gln Gly Gln Val Ser Phe Leu Asp Pro Xaa Tyr Ser Leu His
 85 90 95
 Ile Ser Asn Leu Ser Trp Glu Asp Ser Gly Leu Tyr Gln Ala Gln Val
 100 105 110
 Asn Leu Arg Thr Ser Gln Ile Ser Thr Met Gln Gln Tyr Asn Leu Cys
 115 120 125
 Val Tyr Arg Trp Leu Ser Glu Xaa Pro Xaa His Cys Glu Leu
 130 135 140

<210> 577

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring amino acids

<400> 577

Met Ser Pro Arg Gly Thr Gly Cys Ser Ala Gly Leu Leu Met Thr Val
 1 5 10 15
 Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 20 25 30
 Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45
 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60
 Ser Glu Thr Glu Asp Val Ser Asn Arg Asn Xaa Val Lys Glu Val Glu
 65 70 75 80
 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95
 Leu Thr Asn Gly Cys Pro Gly Gly Glu Ser Lys Cys Val Val Arg Val

	100		105		110						
Glu	Glu	Cys	Pro	Trp	Thr	Asn	Arg	Leu	Trp	Leu	Gly
	115					120					

<210> 578
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 578
 Met Pro Arg Cys Arg Trp Leu Ser Leu Ile Leu Leu Thr Ile Pro Leu
 1 5 10 15
 Ala Leu Val Ala Arg Lys Asp Pro Lys Lys Asn Glu Thr Gly Val Leu
 20 25 30
 Arg Lys Leu Lys Pro Val Asn Ala Phe Xaa Cys Gln Arg Gly Ser Ser
 35 40 45
 Val Xaa Gly Phe Ala Met Gln Glu Tyr Asn Lys Glu Ser Glu Asp Lys
 50 55 60
 Tyr Val Phe Leu Val Val Lys Thr Leu Gln Ala Gln Leu Gln Val Thr
 65 70 75 80
 Asn Leu Leu Glu Tyr Leu Ile Asp Val Glu Ile Ala Arg Ser Asp Cys
 85 90 95
 Arg Lys Pro Leu Ser Thr Asn Glu Ile Ala Pro Phe Lys Xaa Thr Pro
 100 105 110
 Ser

<210> 579
 <211> 39
 <212> PRT

<213> Homo sapiens

<400> 579

Met Ala Phe Gly Gln Glu Val Thr His Leu Thr Lys Thr Ser Trp Leu
1 5 10 15

Ala Pro Leu Arg Phe Ile Lys Gly LeuLeu Gly Pro Trp Gly Trp Ile
20 25 30

Leu Leu Ile Leu Asp Leu Glu
35

<210> 580

<211> 61

<212> PRT

<213> Homo sapiens

<400> 580

Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Ag Ile Cys
1 5 10 15

Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser
20 25 30

Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Aa Glu
35 40 45

Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu
50 55 60

<210> 581

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring amino acids

<400> 581

Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala
1 5 10 15

Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Ap Leu Ile His
20 25 30

Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala
35 40 45

Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys
50 55 60

Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu
 65 70 75 80
 His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr
 85 90 95
 Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala
 100 105 110
 Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser
 115 120 125
 Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser
 130 135 140
 Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln
 145 150 155 160
 Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg
 165 170 175
 Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp
 180 185 190
 Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu
 195 200 205
 Gly Gln Lys Leu Gly Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser
 210 215 220
 Pro Ala Gln Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu
 225 230 235 240
 Ile Asp Glu Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp
 245 250 255
 Gly Gly Arg Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp
 260 265 270
 Ile Arg Leu Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser
 275 280 285
 Phe Ile Leu Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser
 290 295 300
 Gln Thr Leu Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg
 305 310 315 320
 Leu Thr

<210> 582
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 582

Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu
1 5 10

<210> 583

<211> 362

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (307)

<223> Xaa equals any of the naturally occurring amino acids

<400> 583

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
1 5 10 15

Val His Thr Thr Leu Ser Lys Ser Asp AlaLys Lys Ala Ala Ser Lys
20 25 30

Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
35 40 45

Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val ValLeu Glu His
50 55 60

Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp ValThr
85 90 95

Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
100 105 110

Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
115 120 125

Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
130 135 140

His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
145 150 155 160

Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
165 170 175

Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
180 185 190

Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Thr Asp Gln Leu Gly
195 200 205

Met Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly
 210 215 220
 Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro
 225 230 235 240
 Asn Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro
 245 250 255
 Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly
 260 265 270
 Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala
 275 280 285
 Arg Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp
 290 295 300
 Ser Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly
 305 310 315 320
 Arg His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu
 325 330 335
 Glu Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly
 340 345 350
 Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu
 355 360

<210> 584

<211> 415

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (338)

<223> Xaa equals any of the naturally occurring amino acids

<400> 584

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
 1 5 10 15
 Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
 20 25 30
 Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
 35 40 45
 Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
 50 55 60
 Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
 65 70 75 80

Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
 85 90 95
 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
 100 105 110
 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
 115 120 125
 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
 130 135 140
 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
 145 150 155 160
 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
 165 170 175
 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
 180 185 190
 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met
 195 200 205
 Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu
 210 215 220
 Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met
 225 230 235 240
 Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe
 245 250 255
 Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn
 260 265 270
 Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys
 275 280 285
 Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met
 290 295 300
 Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg
 305 310 315 320
 Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser
 325 330 335
 Gln Xaa Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg
 340 345 350
 His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu
 355 360 365
 Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Ala Arg
 370 375 380

Ala Trp Thr Thr Ser Thr Thr Cys Ser Arg Trp Ala Leu Arg Pro Pro
 385 390 395 400

Arg Trp Thr Cys Ser Phe Leu Ser His Gly Val Ser Glu Gln Val
 405 410 415

<210> 585
 <211> 461
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (234)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 585
 Met Ala Leu Met Leu Ser Leu Val Leu Ser Leu Leu Lys Leu Gly Ser
 1 5 10 15
 Gly Gln Trp Gln Val Phe Gly Pro Asp Lys Pro Val Gln Ala Leu Val
 20 25 30
 Gly Glu Asp Ala Ala Phe Ser Cys Phe Leu Ser Pro Lys Thr Asn Ala
 35 40 45
 Glu Ala Met Glu Val Arg Phe Phe Arg Gly Gln Phe Ser Ser Val Val
 50 55 60
 His Leu Tyr Arg Asp Gly Lys Asp Gln Pro Phe Met Gln Met Pro Gln
 65 70 75 80
 Tyr Gln Gly Arg Thr Lys Leu Val Lys Asp Ser Ile Ala Glu Gly Arg
 85 90 95
 Ile Ser Leu Arg Leu Glu Asn Ile Thr Val Leu Asp Ala Gly Leu Tyr
 100 105 110
 Gly Cys Arg Ile Ser Ser Gln Ser Tyr Tyr Gln Lys Ala Ile Trp Glu
 115 120 125
 Leu Gln Val Ser Ala Leu Gly Ser Val Pro Leu Ile Ser Ile Thr Gly
 130 135 140
 Tyr Val Asp Arg Asp Ile Gln Leu Leu Cys Gln Ser Ser Gly Trp Phe
 145 150 155 160
 Pro Arg Pro Thr Ala Lys Trp Lys Gly Pro Gln Gly Gln Asp Leu Ser
 165 170 175

Thr Asp Ser Arg Thr Asn Arg Asp Met His Gly Leu Phe Asp Val Glu
 180 185 190
 Ile Ser Leu Thr Val Gln Glu Asn Ala Gly Ser Ile Ser Cys Ser Met
 195 200 205
 Arg His Ala His Leu Ser Arg Glu Val Glu Ser Arg Val Gln Ile Gly
 210 215 220
 Asp Thr Phe Phe Glu Pro Ile Ser Trp Xaa Leu Xaa Thr Lys Val Leu
 225 230 235 240
 Gly Ile Leu Cys Cys Gly Leu Phe Phe Gly Ile Val Gly Leu Lys Ile
 245 250 255
 Phe Phe Ser Lys Phe Gln Trp Lys Ile Gln Ala Glu Leu Asp Trp Arg
 260 265 270
 Arg Lys His Gly Gln Ala Glu Leu Arg Asp Ala Arg Lys His Ala Val
 275 280 285
 Glu Val Thr Leu Asp Pro Glu Thr Ala His Pro Lys Leu Cys Val Ser
 290 295 300
 Asp Leu Lys Thr Val Thr His Arg Lys Ala Pro Gln Glu Val Phe His
 305 310 315 320
 Ser Glu Lys Arg Phe Thr Arg Lys Ser Val Val Ala Ser Gln Ser Phe
 325 330 335
 Gln Ala Gly Lys His Tyr Trp Glu Val Asp Gly Gly His As Lys Arg
 340 345 350
 Trp Arg Val Gly Val Cys Arg Asp Asp Val Asp Arg Arg Lys Glu Tyr
 355 360 365
 Val Thr Leu Ser Pro Asp His Gly Tyr Trp Val Leu Arg Leu Asn Gly
 370 375 380
 Glu His Leu Tyr Phe Thr Leu Asn Pro Arg Phe Ile Ser Val Phe Pro
 385 390 395 400
 Arg Thr Pro Pro Thr Lys Ile Gly Val Phe Leu Asp Tyr Glu Cys Gly
 405 410 415
 Thr Ile Ser Phe Phe Asn Ile Asn Asp Gln Ser Leu Ile Tyr Thr Leu
 420 425 430
 Thr Cys Arg Phe Glu Gly Leu Leu Arg Pro Tyr Ile Glu Tyr Pro Ser
 435 440 445
 Tyr Asn Glu Gln Asn Gly Thr Pro Arg Asp Lys Gln Gln
 450 455 460

<210> 586
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 586
 Met Leu Cys His Pro His Val His His HisLeu Val Cys Leu Leu Ala
 1 5 10 15
 Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
 20 25 30
 Ser Gln Gln Ser Asn Gly Glu Phe Met Ala ThrLeu Pro Ser Ile Ser
 35 40 45
 Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
 50 55 60
 Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser
 65 70 75 80
 Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu
 85 90

<210> 587
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 587
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Ag Gly Thr
 65 70 75 80
 Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
 85 90 95
 Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 100 105 110
 Gly Glu Glu Arg Pro Arg Leu Trp Val Met Pro Asn His Gln Val Leu
 115 120 125
 Leu Gly Pro Glu Glu Asp Gln Asp His Ile Tyr His Pro Gln

130

135

140

<210> 588
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 588
 Met Arg Arg Leu Leu Leu Val Thr Ser Leu Val Val Val Leu Leu Trp
 1 5 10 15
 Glu Ala Gly Ala Val Pro Ala Pro Lys Val Pro Ile Lys Met Gln Val
 20 25 30
 Lys His Trp Pro Ser Glu Gln Asp Pro Glu Lys Ala Trp Gly Ala Arg
 35 40 45
 Val Val Glu Pro Pro Glu Lys Asp Asp Gln Leu Val Val Leu Phe Pro
 50 55 60
 Val Gln Lys Pro Lys Leu Leu Thr Thr Glu Glu Lys Pro Arg Gly Thr
 65 70 75 80
 Lys Ala Trp Met Glu Thr Glu Asp Thr Leu Gly Arg Val Leu Ser Pro
 85 90 95
 Glu Pro Asp His Asp Ser Leu Tyr His Pro Pro Pro Glu Glu Asp Gln
 100 105 110
 Gly Glu Glu Arg Pro Arg Leu
 115

<210> 589
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 589
 Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala
 1 5 10 15
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp PheLys Ala Val Asn
 20 25 30
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser
 35 40 45
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln HisTyr
 50 55 60
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn
 65 70 75 80

Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser
 85 90 95
 Asn Lys Glu Ile Glu Ser Phe Ala Arg Arg Thr Tyr Ser Val Ser Phe
 100 105 110
 Pro Met Phe Ser Lys Ile Ala Val Thr Gly Thr Gly Ala His Pro Ala
 115 120 125
 Phe Lys Tyr Leu Ala Gln Thr Ser Gly Lys Glu Pro Thr Trp Asn Phe
 130 135 140
 Trp Lys Tyr Leu Val Ala Pro Asp Gly Lys Val Val Gly Ala Trp Asp
 145 150 155 160
 Pro Thr Val Ser Val Glu Glu Val Arg Pro Gln Ile Thr Ala Leu Val
 165 170 175
 Arg Lys Leu Ile Leu Leu Lys Arg Glu Asp Leu
 180 185

<210> 590
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 590
 Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
 1 5 10 15
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser
 20 25 30
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
 35 40 45
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60
 Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
 65 70 75 80
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95
 Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 591
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 591
 Met Tyr Ala Ser Val Leu Leu Thr Gly Leu Leu Ser Leu Gln Arg Cys
 1 5 10 15
 Leu Ala Val Thr Arg Pro Phe Leu Ala Pro Arg Cys Ala Ala Arg Pro
 20 25 30
 Trp Pro Ala Ala Cys Cys Trp Arg Ser Gly Trp Pro Pro Cys Cys Ser
 35 40 45
 Pro Ser Arg Pro Pro Ser Thr Ala Thr Cys Gly Gly Thr Ala Tyr Ala
 50 55 60
 Ser Cys Ala Thr Arg Arg Arg Ser Thr Pro Pro Pro Thr
 65 70 75

<210> 592
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 592
 Met Ser Met Lys Cys Tyr Leu Val Val Leu Ile Cys Ile Pro Leu Met
 1 5 10 15
 Ala Thr Asp Ala Glu Cys Leu Phe Leu Cys Leu Arg Ala Met Arg Ile
 20 25 30
 Ser Leu Glu Lys Gly Leu Ser Arg Ser Phe Ala Tyr Phe
 35 40 45

<210> 593
 <211> 136
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

<222> (8)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 593
 Xaa Tyr Xaa Ser Cys Arg Lys Xaa Tyr Leu Thr Tyr Gly Xaa Asn Ser
 1 5 10 15
 Arg Val Asp Pro Arg Val Arg His Val Cys Gly Val Arg Ala His Gly
 20 25 30
 Ala Gly Val Pro His Leu Val Ser Gly Gly Asp Glu Val Ser Pro Gly
 35 40 45
 Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu Gln Pro Val His Gln
 50 55 60
 Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln Arg Val Phe Leu Cys
 65 70 75 80
 Pro Gly Glu Pro Gly Ala Lys Ser Gly Arg His Leu Ser Gly Gly Val
 85 90 95
 Pro Pro Tyr Thr Glu Cys Asp His Ala Gln Pro Leu Ala Arg Pro Gly
 100 105 110
 Ala Val Glu Ser Cys Asn His Glu Val Cys Ala Gln Thr Gly Glu Thr
 115 120 125
 Val Gln Pro Leu Met Ala Arg Arg
 130 135

<210> 594
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 594
 Gly Gly Glu Arg His Leu His Arg Thr His Pro Arg Leu Pro Gly His
 1 5 10 15
 Arg Phe Leu Arg Leu His Arg Ala Pro Arg Val Pro His Val As Gly
 20 25 30
 Val Arg Ala His Gly Ala Gly Val Pro His Leu Val Ser Gly Gly Asp
 35 40 45
 Glu Val Ser Pro Gly Gly Ala Gly Pro Val Ser His Ser Ala Glu Glu
 50 55 60
 Gln Pro Val His Gln Val Asp Arg Leu Cys Gly Ala Cys Pro Gly Gln

65		70		75		80									
Arg	Val	Phe	Leu	Cys	Pro	Gly	Glu	Pro	Gly	Ala	Lys	Ser	Gly	Arg	His
				85					90					95	
Leu	Ser	Gly	Gly	Val	Pro	Pro	Tyr	Thr	Glu	Cys	Asp	His	Ala	Gln	Pro
			100					105						110	
Leu	Ala	Arg	Pro	Gly	Ala	Val	Glu	Ser	Cys	Asn	His	Glu	Val	Cys	Ala
		115					120					125			
Gln	Thr	Gly	Glu	Thr	Val	Gln	Pro	Leu	Met	Ala	Arg	Arg			
	130					135					140				

<210> 595
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 595

Met	Ala	Leu	Arg	Arg	Pro	Pro	Arg	Leu	Arg	Leu	Cys	Ala	Arg	Leu	Pro
1				5					10					15	
Asp	Phe	Phe	Leu	Leu	Leu	Leu	Phe	Arg	Gly	Cys	Leu	Ile	Gly	Ala	Val
			20					25					30		
Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	Phe	Glu	Ser
		35					40					45			
Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	Ser	Asp	Pro	Arg
	50					55					60				
Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	Thr	Tyr	Val	Phe	Phe
	65				70					75					80
Asp	Asn	Lys	Ile	Gln	Gly	Asp	Leu	Ala	Gly	Arg	Ala	Glu	Ile	Leu	Gly
				85					90					95	
Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu
			100				105						110		
Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu
		115					120					125			
Ile	Val	Ile	Glu	Leu	Thr	Val	Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys
	130					135					140				
Arg	Val	Pro	Lys	Ala	Val	Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys
145					150					155					160
Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn
				165					170					175	
Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn
			180					185					190		

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
 195 200 205
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
 210 215 220
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
 225 230 235 240
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
 245 250 255
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
 260 265 270
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
 275 280 285
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
 290 295 300
 Lys Ser Ser Phe Val Ile
 305 310

<210> 596
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 596
 Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro
 1 5 10 15
 Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
 20 25 30
 Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
 35 40 45
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
 50 55 60
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
 65 70 75 80
 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
 85 90 95
 Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
 100 105 110
 Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
 115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
 130 135 140
 Arg Val Pro Lys Ala Val Pro Val Gly Lys Met AlaThr Leu His Cys
 145 150 155 160
 Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
 165 170 175
 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala AsnPro Arg Phe Arg Asn
 180 185 190
 Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
 195 200 205
 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala SerAsn Asp
 210 215 220
 Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
 225 230 235 240
 Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
 245 250 255
 Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
 260 265 270
 Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
 275 280 285
 Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
 290 295 300
 Lys Ser Ser Phe Val Ile
 305 310

<210> 597

<211> 59

<212> PRT

<213> Homo sapiens

<400> 597

Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Leu Ala Val Trp Val
 1 5 10 15
 Val Ser Phe Gly Val Ala Lys Gln Ala Ile Leu Ile His Asn Glu Arg
 20 25 30
 Arg Val Asp Trp Leu Phe Arg Gly Pro Ser Thr Thr Pro Thr Ser Pro
 35 40 45
 Ser Ser Gly Arg Ser Arg Ala Thr Ser Thr Val
 50 55

<210> 598
 <211> 236
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 598
 Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15
 Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30
 Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45
 Val Leu Pro Ala Trp Tyr Xaa Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60
 Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80
 Glu Asp Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95
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<212> DNA

<213> Homo sapiens

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